



MAJOR GENERAL HARDWICKE.

F.R.S. F.R.A.S. F.L.S. F.Z.S. &c. &c. &c.

From a Portrait by J. Lucas. Lithographed by Lewis Hughes.

Published by Treuttel, Wurtz, & Co. 10, No. 1, Square. Parbury & Allen, 10, No. 1, Square. 1834.

Printed by Treuttel, Wurtz, & Co. 10, No. 1, Square.

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copy 1000
1000

ILLUSTRATIONS

OF

INDIAN ZOOLOGY;

CHIEFLY SELECTED FROM THE COLLECTION

OF

MAJOR-GENERAL HARDWICKE, F.R.S.,

L.S., M.R.A.S., M.R.I.A., &c., &c.

BY

JOHN EDWARD GRAY, F.R.S.,

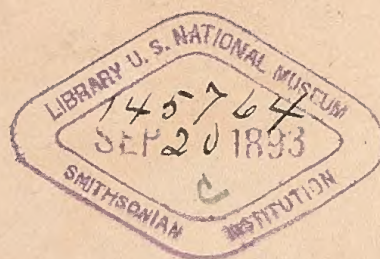
F.G.S., F.Z.S., M.R.G.S.,

CORRESPONDING MEMBER OF THE ACADEMY OF NATURAL SCIENCES, AND MACLURIAN LYCEUM OF PHILADELPHIA, HONORARY

MEMBER OF THE NATURAL HISTORY SOCIETY OF PARIS, AND OF THE IMPERIAL SOCIETY OF THE OBSERVERS OF

NATURE AT MOSCOW, AND OF THE NATURAL HISTORY SOCIETY OF NEWCASTLE-UPON-TYNE, &c. &c.

VOL. I.



LONDON:

PUBLISHED BY TREUTTEL, WURTZ, TREUTTEL, JUN. AND RICHTER, SOHO SQUARE; 17, RUE BOURBON, PARIS; AND GRANDE RUE, STRASBURG; ALSO BY PARBURY, ALLEN AND CO., 7, LEADENHALL STREET.

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S1

TO THE
HONOURABLE COURT OF DIRECTORS

OF THE
Honourable East India Company,

THIS COLLECTION OF PLATES
OF THE HITHERTO UNFIGURED INDIAN ANIMALS,

IS
WITH THEIR PERMISSION RESPECTFULLY DEDICATED,

BY THEIR GRATEFUL AND OBEDIENT SERVANT,

BRITISH MUSEUM,
MAY, 1832.

THE EDITOR.

DIRECTIONS FOR ARRANGING THE PLATES,

OF THE

NUMBERS I. to X.

MAMMALIA.

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Murine Dysopes. <i>Dysopes Murinus</i>, Gray. 2. Beautiful Cat. <i>Felis ornata</i>, Gray. 3. Allied Cat. <i>Felis affinis</i>, Gray. 4. Bengal Civet. <i>Viverra Bengalensis</i>, Gray. 5. Brown long nosed Civet. <i>Viverra ? fusca</i>, Gray. 6. Collared Civet Bear. <i>Mydaus collaris</i>, Gray. 7. Skull and Head of the same, of natural size. | <ol style="list-style-type: none"> 8. Collared Hedge Hog. <i>Erinaceus collaris</i>, Gray. 9. Musk Shrew. <i>Sorex myosurus</i>, Pallas. 10. Indian Gerboa Rat. <i>Gerbillus Indicus</i>, Desm. 11. Indian Field Mouse. <i>Arvicola Indica</i>, Gray. 12. Indian Antelope. <i>Antelope cervicapra</i>, Lin. 13. Head and Horn of the same, of natural size. |
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BIRDS.

Raptorial.

14. White-backed Vulture. *Vultur leuconota*, Gray.
15. Fig. 1. Bengal Vulture. *Vultur Bengalensis*, Lath.
Fig. 2. Pondicherry Vulture. *Vultur Pondicherianus*, Lath.
Fig. 3. Mask Vulture. *Vultur monachus*, Lath.
16. White Dotted Eagle. *Aquila punctata*, Gray.
17. White-banded Eagle. *Aquila bifasciata*, Gray.
18. Lined Fishing Eagle. *Haliastur lineatus*, Gray. Inhab. China.
19. Plain Fishing Eagle. *Haliastur unicolor*, Gray. Inhab. China.
20. Coromandel Owl. *Strix Coromandra*, Lath. Inhab. Coromandel.
21. Chinese Owl. *Strix Chinensis*, Lath. Inhab. Himalaya Mountains.

Perching.

22. Almorah Jay. *Garrulus Vigorsii*, Gray.
23. Fig. 1. Gular Jay. *Garrulus gularis*, Gray.
Fig. 2. Beautiful Jay. *Garrulus ornatus*, Gray.
24. Hunting Crow. *Kitta venatorius*, Gray.
25. Rufous Magpie. *Pica Vagabunda*, Wayler.
26. Chinese Magpie. *Pica Sinensis*, Wayler.
27. Small Paradise Bird. *Paradisea minor*, Lath.
28. Sirkeer Cuckoo. *Centropus Sirhee*, Gray.
29. Fig. 1. Almorah Woodpecker. *Picus dimidiatus*, Temm.
Fig. 2. Rufous Indian Woodpecker. *Picus rufus*, Lath.
30. Fig. 1. Crimson Woodpecker. *Picus mineatus*, Forst.
Fig. 2. Indian three-toed Woodpecker. *Picus Tiga*, Horsf.
Fig. 3. A head of Female.
31. Fig. 1. Nepal Woodpecker. *Picus Nepaulensis*, Gray.
Fig. 2. Moustache Woodpecker. *Picus barbatus*, Gray.
32. Lesser spotted Woodpecker. *Picus Macei*, Temm.
33. Fig. 1. Brown Woodpecker, Lath. *Picus Molluccensis*, Lath.
Male and Female.
Fig. 2. Mahratta Woodpecker. *Picus Mahrattensis*, Lath. Male and female.
34. Fig. 1. Indian Goat Sucker. *Caprimulgus Indicus*, Lath.
Fig. 2. Bombay Goat Sucker. *Caprimulgus Asiaticus*, Lath.
35. Fig. 1. Balastian Swift. *Cypselus palmarum*, Gray. Male, female, nest and young.
Fig. 2. Allied Swift. *Cypselus affinis*, Gray.
Fig. 3. Chinese Martin, Lath. *Hirundo Chinensis*, Gray.

Gallinaceous.

36. Argus Pheasant, Hen. *Argus Pavoninus*, Temm.
37. Hardwicke's Polyplectron. *Polyplectron Hardwickii*, Gray.
38. Lineated Peacock Pheasant. *Polyplectron lineatum*, Gray. Female.
39. Reeve's Pheasant. *Phasianus Reevesii*, Gray.
40. Pucras Pheasant. *Phasianus Pucrasia*, Gray.

Gallinaceous.

41. Nepal Pheasant, Lath. *Phasianus Hamiltonii*, Gray.
42. Purple Pheasant. *Phasianus purpureus*, Gray.
43. Fig. 1. Javan Hen. *Gallus furcatus*, Temm.
Fig. 2. Lord Stanley's Hen. *Gallus Stanleyi*, Gray.
Fig. 3. Banks's Hen. *Gallus Bankiva*, Temm.
44. Malabar Cock, Lath. Hist. *Gallus giganteus*, Temm.
45. Malabar Hen. *Gallus giganteus*, Temm.
46. Black head Horned Pheasant. *Satyra melanocephalus*, Gray.
47. Black headed Pheasant. *Phasianus ? melanocephalus*, Gray.
Young Male of former.
48. Black headed Pheasant. *Phasianus ? melanocephalus*, Gray.
Female.
49. Pennant's Horned Pheasant. *Satyra Pennantii*, Gray.
50. Chinese Horned Pheasant. *Satyra Temminckii*, Gray.
51. Bengal Horned Pheasant. *Satyra Lathamii*, Gray.
52. Curria Partridge, Lath. *Perdix Hardwickii*, Gray.
53. Fig. 1. Concentric Francolin. *Perdix concentrica*, Gray.
Fig. 2. Javan Peacock, (Head.) *Pavo muticus*, Linn.
54. Chuckar Partridge. *Perdix chukar*, Gray.
55. Fig. 1. Hepburn's Francolin. *Perdix Hepburni*, Gray.
Fig. 2. ————— Pale variety.
56. Fig. 1. Wood Partridge. *Perdix gularis*, Temm.
Fig. 2. Oriental Partridge, Lath. Hist. *Perdix orientalis*, Gray.
57. Olive Partridge, Lath. *Perdix olivacea*, Gray.
58. Eyed Partridge. *Perdix ocella*, Temm.

Wading.

59. Edward's Bustard. *Otis Edwardsii*, Gray.
60. Marbled Bustard. *Otis marmorata*, Gray.
61. Delicious Bustard. *Otis deliciosa*, Gray.
62. —————, Female. *Otis deliciosa*.
63. Spur Winged Plover, Lath. Male and female. *Charadrius ventralis*, Wagler
64. Sataar Jabirn. *Mycteria Australis*. Inhab.
65. Indian white Heron. *Ardea orientalis*, Gray.
66. Fig. 1. Cinnamon Heron. *Ardea cinnamomea*, Lath.
Fig. 2. Yellow necked Heron. *Ardea flavicollis*, Wagler.

Web-footed.

67. Spotted Billed Duck. *Anas poecilohyncha*, Lath.
68. Girra Teal. Male and female. *Anas girra*, Gray.
69. Fig. 1. Waved Tern, Lath. Hist. *Sterna brevirostris*, Gray.
Fig. 2. Orange Billed Tern. *Sterna aurantia*, Gray.
70. Fig. 1. Javan Tern. *Sterna Javanica*, Horsf.
Fig. 2. Allied Tern. *Sterna similis*, Gray.
Fig. 3. Brown Bellied Tern. *Sterna acuticauda*, Gray. Male.
71. Javan Cormorant. *Carbo Javanica*, Horsf.

REPTILES.

- | | |
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| <p>72. Eaved Terrapin. <i>Emys tectum</i>, Bell, MSS.</p> <p>73. Thugi Terrapin. <i>Emys Thugi</i>, Gray.</p> <p>74. Kachuga Terrapin. <i>Emys Kachuga</i>, Gray.</p> <p>75. Baska Terrapin. <i>Emys Baska</i>, Gray.</p> <p>76. Fig. 1. Spotted Terrapin. <i>Emys Hamiltonii</i>, Gray.
Fig. 2. Thick Neck Terrapin. <i>Emys crassicolis</i>, Bell, MSS.</p> | <p>77. Fig. 1. Spinose Terrapin. <i>Emys spinosa</i>, Bell, MSS.
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AMPHIBIA.

- | | |
|---|---|
| <p>82. Fig. 1. Spotted Tree Frog. <i>Hyla maculata</i>, Gray.
Fig. 2. Bengal Frog. <i>Rana Bengalensis</i>, Daud.</p> | <p>83. Fig. 1. Keeled Nosed Toad. <i>Bufo carinatus</i>, Gray.
Fig. 2. Doubtful Toad. <i>Bufo dubius</i>, Gray.</p> |
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FISH.

- | | |
|---|--|
| <p>84. Fig. 1. Coach Whip Sisor. <i>Sisor Rabdophorus</i>, Ham.
Fig. 2. Bearded File Fish. <i>Anacanthus barbatus</i>, Gray.</p> <p>85. Fig. 1. Cuvier's Acanthonotus. <i>Silurus (Acanthonotus)</i>, Cuvieri, Gray.
Fig. 2. Bengal Ailia. <i>Melapterus (Ailia)</i> <i>Bengalensis</i>, Gray.
Fig. 3. Hamilton's Coilia. <i>Engraulis (Coilia)</i> <i>Hamiltonii</i>, Gray.</p> <p>86. Fig. 1. Hamilton's Carp. <i>Cyprinus (Bangana)</i> <i>Hamiltonii</i>, Gray.
Fig. 2. Goha Carp. <i>Cyprinus (Leuciscus)</i> <i>Goha</i>, Ham.</p> <p>87. Fig. 1. Beautiful Diplopterus. <i>Diplopterus pulcher</i>, Gray.
Fig. 2. Smooth-headed Tetraodon. <i>Tetraodon leiopleura</i>, Gray.
Fig. 3. Chedra Carp. <i>Cyprinus Chedra</i>, Ham.</p> <p>88. Fig. 1. Bruce's Balitora. <i>Balitora Brucei</i>, Gray.
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Fig. 3. Gotyla Rock Carp. <i>Cyprinus Gotyla</i>, Gray.</p> <p>89. Fig. 1. Carce Pipe Fish. <i>Syngnathus Carce</i>, Ham.
Fig. 2. Banded Pipe Fish. <i>Syngnathus faciatus</i>, Gray.
Fig. 3. Hardwicke's Pipe Fish. <i>Syngnathus Hardwickii</i>, Gray.
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Fig. 3. Armed Balistes. <i>Balistes subarmatus</i>, Gray.</p> <p>91. Fig. 1. Chitala Mystus. <i>Mystus Chitala</i>, Ham.
Fig. 2. Kapirat Mystus. <i>Mystus Kapirat</i>, Ham.</p> <p>92. Fig. 1. Hardwicke's Julis. <i>Julis Hardwickii</i>, Gray.
Fig. 1. Short-rayed Paradise Fish. <i>Polynemus Teria</i>, Ham.</p> <p>93. Fig. 1. Mosal Carp. <i>Cyprinus Mosal</i>, Ham.
Fig. 2. Morala Carp. <i>Cyprinus Morala</i>, Ham.</p> <p>94. Fig. 1. Tileo Carp. <i>Cyprinus Tileo</i>, Ham.
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Fig. 3. Beautiful Loach. <i>Botia grandis</i>, Gray.</p> <p>95. Fig. 1. Bora Ophisurus. <i>Ophisurus Boro</i>, Ham.
Fig. 2. Harancha Ophisurus. <i>Ophisurus Harancha</i>, Ham.
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Fig. 4. Hardwicke's Rataboura. <i>Rataboura Hardwickii</i>, Gray.
Fig. 5. Bengal Conger. <i>Muraena Bengalensis</i>, Gray.</p> <p>96. Allied Herring. <i>Clupea affinis</i>, Gray.</p> <p>97. Deformed Hog Fish. <i>Synanacea grossa</i>, Gray.</p> <p>98. Fig. 1. Spotted Bearded Shark. <i>Scyllium maculatum</i>, Gray.
Fig. 2. Ornamented Bearded Shark. <i>Scyllium ornatum</i>, Gray.</p> <p>99. Ornamented Trygon. <i>Trygon ornatum</i>, Gray.</p> |
|---|--|

FOSSILS.

100. Fig. 1. Ammonites Nepaulensis.
- Wallichii.
- tenuistriata.

NOTE.—The lineated Pheasant, Latham, on Tab. 40, should be *Nepaul Pheasant*, Lath. Hist. *Emys guttata*, Tab. 75, should be *Emys Hamiltonii*.

In some copies a few of the names on the Plates are incorrectly printed, but these are corrected in this List, as in t. 25, t. 26, t. 29, f. 2.; t. 39, t. 57, t. 68, f. 1; t. 88, and t. 90.



W.B. Hawkins lithog

DYSOPES MURINUS. MURINE DYSOPES.
Bengal.

*Published 1829 by Parbury, Allen & Co. Leadenhall Street.
Printed by W. Day Jr. Gt. St.*



FELIS ORNATA.-Gray
BEAUTIFUL CAT.

London: Published by Furburry and Allen, May 1st 1889
Printed by Engelmann & Co



FELIS AFFINIS—Gray
ALLIED CAT.

London: Published by Parbury & Allen, May 1st 1829
Printed by Engelmann & Co.



V. Viv. N. 98

BENGAL CIVET, *VIVERRA BENGALENSIS*.
Most Part of Bengal.

Published by Barbary Allen & Co. London Wall Street.
Printed by K. 11, 12



By W. Henshaw delin.

Printed by Engelmann & Co.

VIVERRA FUSCA.-Gray
BROWN LONG NOSED CIVET.

London. Published by Parbury & Allen May 1st 1829.



MYDAUS COLLARIS Gray. COLLARED CIVET BEAR.
India...Bali Saur, of the Hindoos.

Indisized 1829 by Anthony Allen & Co. London & W. Day.
Printed by W. Day.

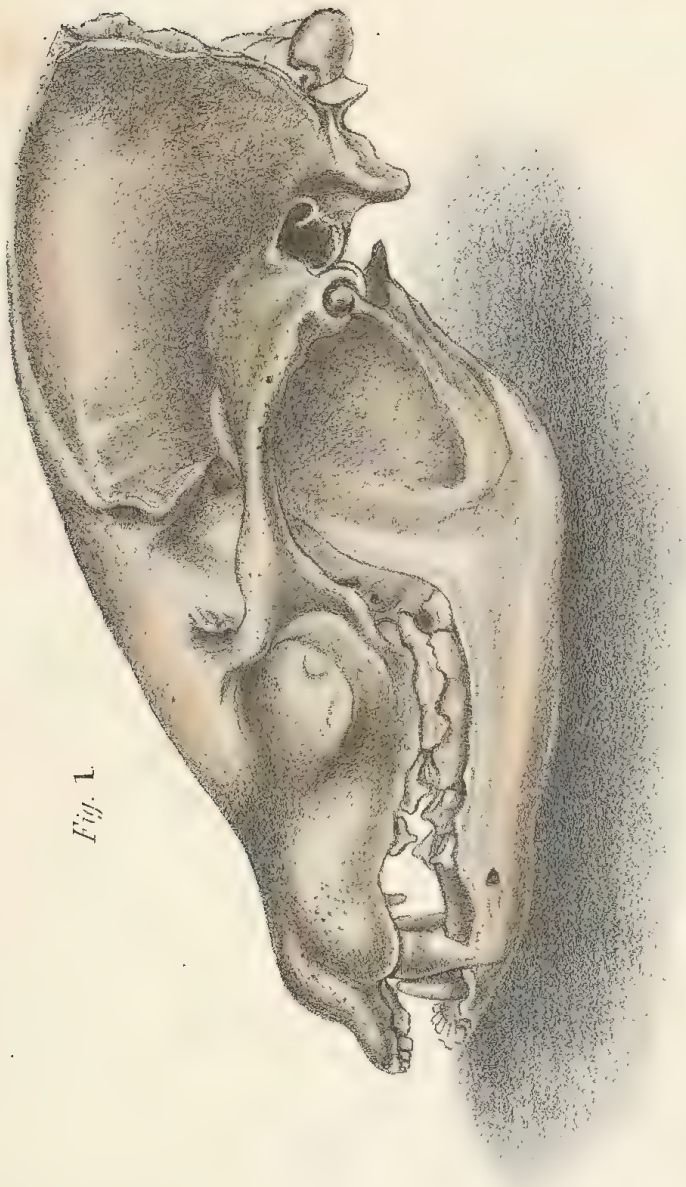


Fig. 1

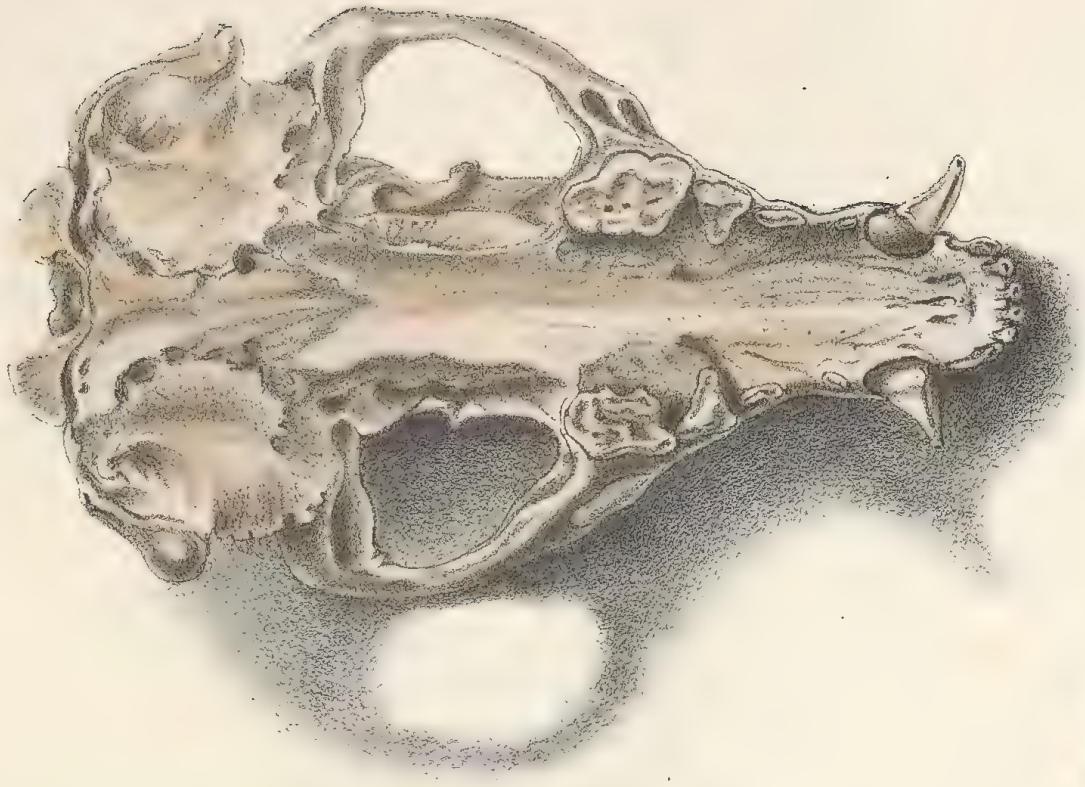


Fig. 2.

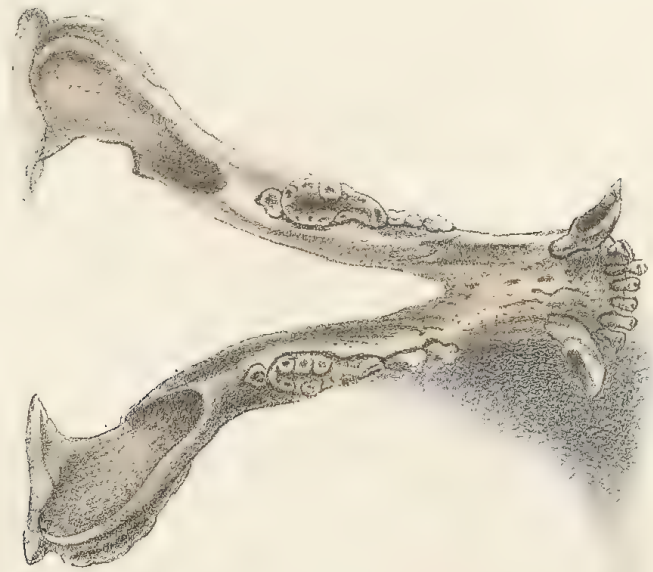


Fig. 3.

Fig. 4.



MYDAUS COLLARIS.—Gray
COLLARED CIVET BEAR.

3/4 Nat Size.

Published by Furber & Co. London. May 1st 1829.
Engraved by Englewood & Co.



ERINACEUS COLLARIS. COLLARED HEDGE HOG.
Doab.

*Published 1829 by Parbury Allen & Co. Leadenhall Street
Printed by W. Day 17, Gate St.*



H. W. Harvey del.

Printed by Englewood.

SOREX MYOSURUS.—Pallas. MUSK SHREW.
BENGAL

Described by Jones, 1820, by Parberry Allen, & Co, Ludlowhall Street, London



B.W. Hawkins Lithog.

GERBILLUS INDICUS Desm. INDIAN GERBOA RAT.

*Published 1872 by Barbary Allen & Co. Leicester Hall Street.
Printed by W. Day & Co. Great Street.*



ARVICOLA INDICA—Gray.
INDIAN FIELD MOUSE.

Published by Harberty & Allen, London, May 1, 1824.
Printed by Englewood & Co.



INDIAN ANTELOPE. ANTELOPE CERVICAPRA, Lin.

1. Young in Month of January 1822. Antelope bilineata. Lim Mfs. 2. same Individual in end of Oct. 1823. 3. Adult.

Painted by J. G. Cooper. Engraved by J. G. Cooper.



Printed by W. Day.

INDIAN ANTELOPE, ANTELOPE CERVICAPRA. Lin.
India.

1...Young. 2...Adult.

Published 1829 by Parbury Allen & Co. Leadenhall Street.



Drawn & lith. by Waterhouse Hawkins.

Printed by Engelmann & Co.

WHITE BACKED VULTURE. *VULTUR LEUCONOTA.*



BENGAL VULTURE. VULTUR BENGALENSIS (Lath) 1. HEAD OF VULTUR PONDICERIANUS. 2. HEAD OF VULTUR MONACHUS.
half the natural size. from living specimens.



WHITE DOTTED EAGLE. AQUILA PUNCTATA.

Cawnpore $\frac{3}{4}$ Nat. length.

Drawn & Engr'd by W. Hawkins

Printed by Engelmann & Co.



WHITE BELLED EAGLE.
AQUILLA BIFASCIATA.
♂'s Natural Length. Calcutta. March 1802.



Drawn & lith. by Waterhouse Hawkins.

Printed by Engelmann & Co.

LINED FISHING EAGLE. *HALIAETUS LINEATUS* Gray.



Drawn & Col. by Huetbauer, New York

PLAIN FISHING EAGLE. H. A. J. W. T. H. S. U. N. I. C. O. L. O. R. Gray.

Printed by Engelmann & Co



B. W. Hawkins lith.

STRIX COROMANDRIA, Lath. COROMANDEL OWL. Lath. Coromandel.

Published 1829 by Parbury Allen & Co. Leadenhall Street.
Printed by W.D. & J. Knapp.



CHINESE OWL. *STRIX SINENSIS*. II. *Reprod. after G. G. G.*



Drawn from Nature & on Stone by Waterhouse Hawkins.

Printed by Engelmann & Co

ALMORAH JAY. GARRULUS VIGORSII.

Nat. Size



Fig 1 GARRULUS GULARIS. Nob. GULAR JAY.

Fig. 2. GARRULUS ORNATUS. Nob. BEAUTIFUL JAY.
ALMORAH. Nat. Size



Drawn from Nature & on Stone by Waterhouse Hawkins

Printed by Engelmann & Co.

KITTA VENATORIUS, Nob. HUNTING CROW. Lath Hist



PICA VAGABUNDA. Weigler. RUFOUS NAPE WREN.
Kereyli. Natives of Calcutta.

Published 1829 by Richard Allen & Co. Londonhall Street.
Printed by W. Day.



G. W. Howland lith.

PICA SINENSIS. n CHINESE MAGPIE.
India.

Published 1829 by Parbury Allen & Co. Leadenhall Street.
Printed by W. Day.



SMALL PARADISE BIRD. PARADISEA MINOR

Drawn from a living specimen in the Aviary of Mr. Beale, at Ceylon.

Printed by W. H. Jones, & Co., London.



W. W. Hawkins lith.

CENTROPUS SIKKIMENSIS SIKKIM CUCKOO.

Latham.

Published 1829 by Parbury, Allen, & Co. Leadenhall Street.
Printed by A. Day



Drawn from Nature & on Stone by Waterhouse Hawkins.

Printed by Engelmann & Co

1. PICUS DIMIDIATUS Temm ALMORAH WOODPECKER. 2 PICUS RUFUS. Lath. RUFUS INDIAN WOODPECKER. Lath.



Drawn from Nature & on Stone by Waterhouse Hawkins.

Printed by Engelmann & Co.

1, PICUS MINIATUS Forst CRIMSON WOODPECKER 2, PICUS TIGA Horst INDIAN. 3, TOED WOODPECKER. a2, HEAD OF FEMALE.



2



a . 2



Drawn from Nature & on Stone by Waterhouse Hawkins.

Printed by Englemann & Co

1. PICUS NEPAULENSIS Nob NEPAUL WOODPECKER .

2. PICUS BARBATUS Nob MOUSTACHE WOODPECKER .



B.W.Hawkins del^t

PICUS MACUL. LESSER SPOTTED WOODPECKER.

1 Male. — 2 Female. — 2 a. Wing — 2 b. Tail.

Pub^d by Treuttel & Wurtz Soho Square.



Drawn from nature by Thomas S. Hart

Engraved by J. G. Smith

1. *PICUS MOLLUCENSIS*. Lath. BROWN WOODPECKER. Lath.
1a Male 1b Female

2. *PICUS MAHRATTENSIS*. Lath. MAHRATTA WOODPECKER.
a Male b Female



1. CAPRIMULGUS INDICUS. Lath. INDIA GOAT-SUCKER.

2. CAPRIMULGUS ASIATICUS. Lath. BOMBAY GOAT-SUCKER.



W.B.Hawkins lithog.

Printed by W. Day, 17 Gate St.

1. BALASSIAN SWIFT. *CYPSELUS PALMARUM*. n. 2. *CYPSELUS AFFINIS*. n. 2 ALLIED SWIFT. 3. CHINESE MARTIN. Lath. *HIRUNDO CHINENSIS*. n.

1.a Male. 1.b Female. (1.c. 1.d.) Young & Nest on Palm Leaf.

Published 1829, by Parbury, Allen & Co. Leadenhall Street.



Drawn & lith. by W. H. H. 1871

ARGUS PHEASANT HEN. ARGUS PANONIUS ♀

Printed by Engelmann & Co.

2

1



From Nature & on Stone by W. H. H. Henslow

HARDWICKES POLYPLECTRON — POLYPLECTRON HARDWICKII Gray.

India, $\frac{3}{4}$, nat size.

1. Dorsal feather of *P. Hardwickii*

2. *D^o . D^o . P. Bicalcaratum.*

Printed by Engelmann & Co.





Drawn & lith. by Waterhouse Hawkins.

Printed by Engelmann & Co.

LINEATED PEACOCK PHEASANT. POLYPLECTRON LINEATUM Gray.

China $\frac{3}{4}$ nat Size.



on Stone by F.W. Hawkins from a Chinese Drawing.
made under the inspection of Mr. Leves from a living Bird.

Adult ♂ Size

PHASIANUS REEVESII. n. REEVES'S PHEASANT.
China.

Published 1st June 1829 by Parbury, Allen & Co. London Wall Street.
Printed by W. Bayly, Queen St.



B. W. Hawkins lithog.

Printed by Engelmann & Co.

PHASIANUS PUCRASIA ^{n.} PUCRAS PHEASANT, Lath.
ALMORAH WELLS, CALLED PUKRAS

Published June 1, 1828, by Parbury, Allen, & Co. Leadenhall St. London.



W. B. Hawkins del.

HIMALAYAN MONAL PHEASANT *Phasianus himiltonii* Gray Male.
Rhaidge Nepalese Nepal.

Published 1829 by Debury Allen & Co. London & Hall Street.
Printed by W. Bayly, Gate Street.

3 Nat. size.



W.B. Hawkins del. Painted by W. Day II. G. & S. 82

PHASIANUS PURPUREUS - PURPLE PHEASANT-TENANG.

Phasianus erythrophthalmus ♀ Raffles!

Reprinted 1859 by Parbury Allen & Co. London.



Drawn & Col'd by Mr. H. S. G. Hatched by Mr. H. S. G. JAVAN HEN Java GALLUS FURCATUS, Temm. STANLEY HEN. GALLUS STANLEYI BANKIVA Temm. Siam. Printed by Engelmann & Co.



MALABAR COCK. Lath. Hist.
GALLUS GIGANTEA. Temm

A nat. Size

Drawn & lith. by Waterhouse Hawkins.

Printed by Engelmann & Co.



MALABAR HEN. Lath Hist. GALLUS GIGANTEUS ♀ Temm.

Common in the Doab. $\frac{4}{5}$ th Nat length. A. Foot Nat Size.



Drawn & lith. by W. Hawkins.

Printed by Engelmann & Co.

BLACK HEADED HORNED PHEASANT. SATYRA MELANOCEPHALA.
Adult male.



Drawn & lithog. by Waterhouse Hawkins.

Printed by Engelmann & Co.

BLACK HEADED PHEASANT male PHASIANUS? MELANOCEPHALUS.



Printed by Engelmann & Co

BLACK HEADED PHEASANT female PHASIANUS? MELANOCEPHALUS.♀



Drawn & Tint. by Waterhouse Hancock

Printed by Engelmann & Co.

PENNANT'S HORNED PHEASANT. SATYRA PENNANTI.



Drawn & lith. by Waterhouse Hawkins.

Printed by Engelmann & Co.

CHINESE HORNED PHEASANT. SATYRA TEMMINCKII male.

$\frac{3}{4}$ Nat. length



Drawn & Coloured by Waterhouse Hancock

Printed by Engelmann & Co.

BENGAL HORNED PHEASANT. SATYRA LATHAMII.



B.W. Hawkins lithog

India, Nil Size

CURRIA PARTRIDGE, - PERDIX HARDWICKII, Gray.

Published 1829 by Parbury, Allen & Co. London, Hall Str.

Printed by W. Day, 27, Gate St.



On Stone by Waterhouse Hawkins.

Printed by Engelmann & Co.

1. CONCENTRIC FRANCOLIN (female) *PERDIX CONCENTRICA*. 2. JAVANESE PEACOCKS (Head)



B. W. Hawkins. Lithog.

CHITCHELTON. P. A. T. R. I. D. G. E.

Fredrix. Cladon. Gray. India. Not size.

Printed by W. Day & Co. London. No. 1. 1850.

Printed by W. Day & Co. 1850.



On Stone by Waterhouse Hawkins.

Printed by Engelmann & Co

1. HEPBURNS FRANCOLIN PERDIX HEPBURNII 2. PERDIX HEPBURNII var PALLIDA ODYPORE.



On Stone by Waterhouse Hawkins.

Printed by Engelmann & Co.

1. WOOD PARTRIDGE) PERDIX GULARIS (Temm) 2. ORIENTAL PARTRIDGE PERDIX ORIENTALIS (Lath Hist.)



PERDIX OLIVACEA or OLIVE PARTRIDGE Lath
India

Published 1829 by Parbury Allen & Co. Leadenhall Street.
Printed by W.D. May 17, Gate Street.



Nat. Size.

B.W. Hawkins lithog

PERDIX OCULEA Temna -- EYED PARTRIDGE.
Bengal.

Printed by W.D. & H. G. & Co. Street

Red eye



Drawn & Lith. by Waterhouse Hawkins.

Printed by Engelmann & Co.

EDWARDS'S BUSTARD. OTIS EDWARDSII.

$\frac{1}{2}$ Nat. length



On Stone by Waterhouse Hawkins.

Printed by Engelmann & Co.

MARbled BUSTARD OTIS MARMORATA.



Drawn & lith by Waterhouse Hawkins

Printed by Engelmann & Co.

DELICIOUS BUSTARD male OTIS DELICIOSA.

$\frac{2}{3}$ Nat. length.



DELICIOUS BUSTARD. OTIS DELICIOSA.

$\frac{2}{3}$ Nat length.

Painted by P. S. P. & Co.



SPUR WINGED FLOWER. Lath. CHARADRIUS VENTRALIS. Wagler.

Cawnpore
1..... Male 2..... Female

Published 1839 by Parker, Allen & Co. Londonhall Street
Printed by W.D.G.



CICONIA (MYCTERIA) AUSTRALIS, Lath. TETAAR JABIRU, Lath.
PUTTEGHUR, INDIA.

Printed by Engelmann & Co

London. Published Sept. 1829, by Parbury, Allen & Co. Leadenhall St.



Drawn & Col'd by Waterhouse Harrison

Printed by Engelmann & Co

INDIAN WHITE HERON. ARDEA ORIENTALIS.



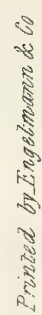
W. H. Edwards del.



B. G. M. del.

1. ARDEA CINNAMOMEA. Lath. CINNAMON HERON. Young. *Futcher del.*

2. YELLOW NECKED HERON. Lath. ARDEA FLAVICOLLIS. Wagler



Drawn & Colored by Walter Charles Hawkins.

STOTTED BILLED DUCK LATH MALC ANAS POCILORHYNCHA LATH.



B. Waterhouse Hawkins. lith.

Printed by W. Day.

GIRRA TEAL. Lath. ANAS GIRRA. n.

1. Male

2. Female.

Published 1829, by Turbary Allen & Co. Leadenhall Street



B. W. Hawkins del.

1. WAVED TERN. Lath. H. — STERNA BREVIROSTRIS. Nob.

2. SOOTY TERN. Lath. H. — STERNA FUSCATA. Nob.



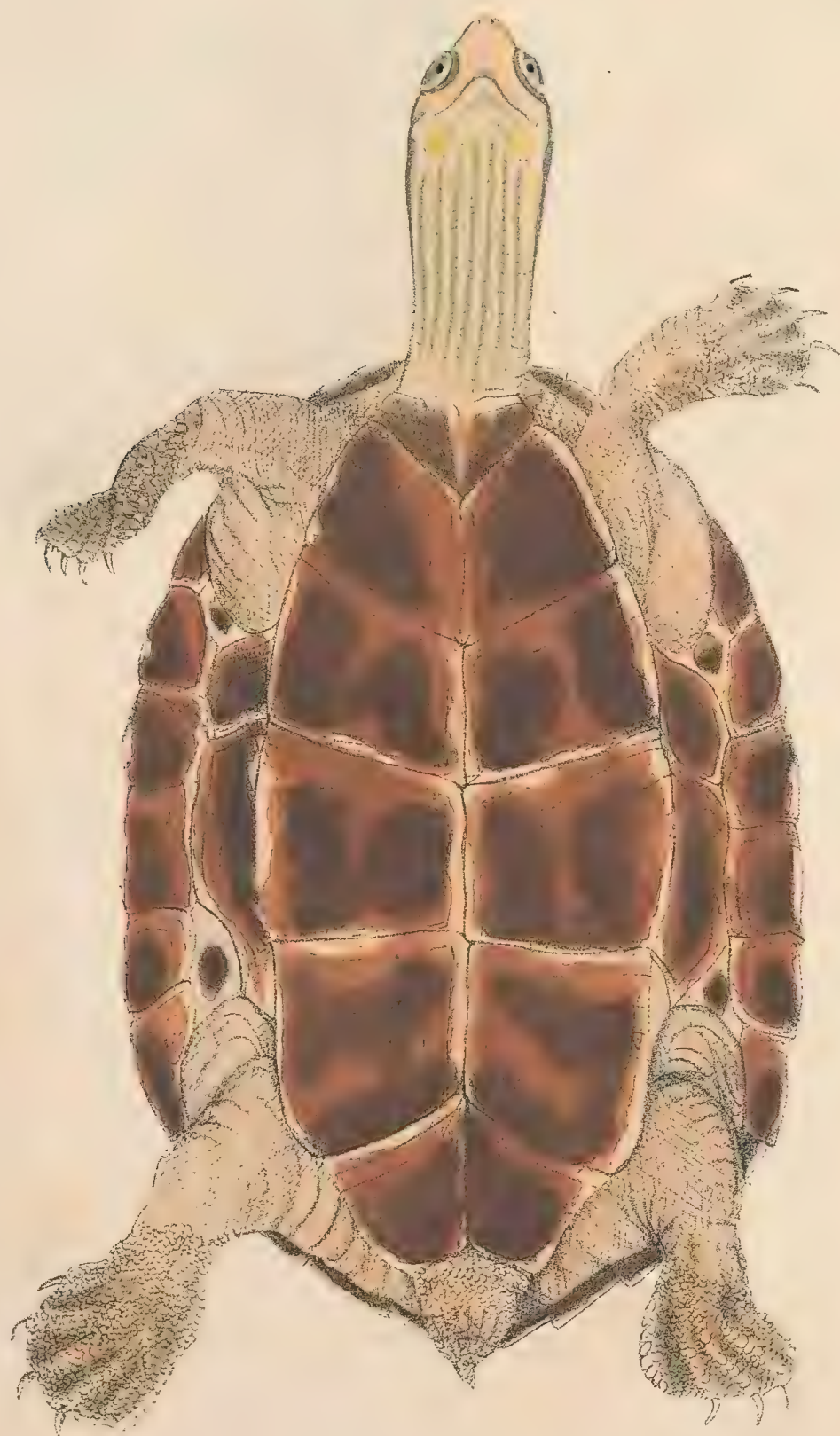
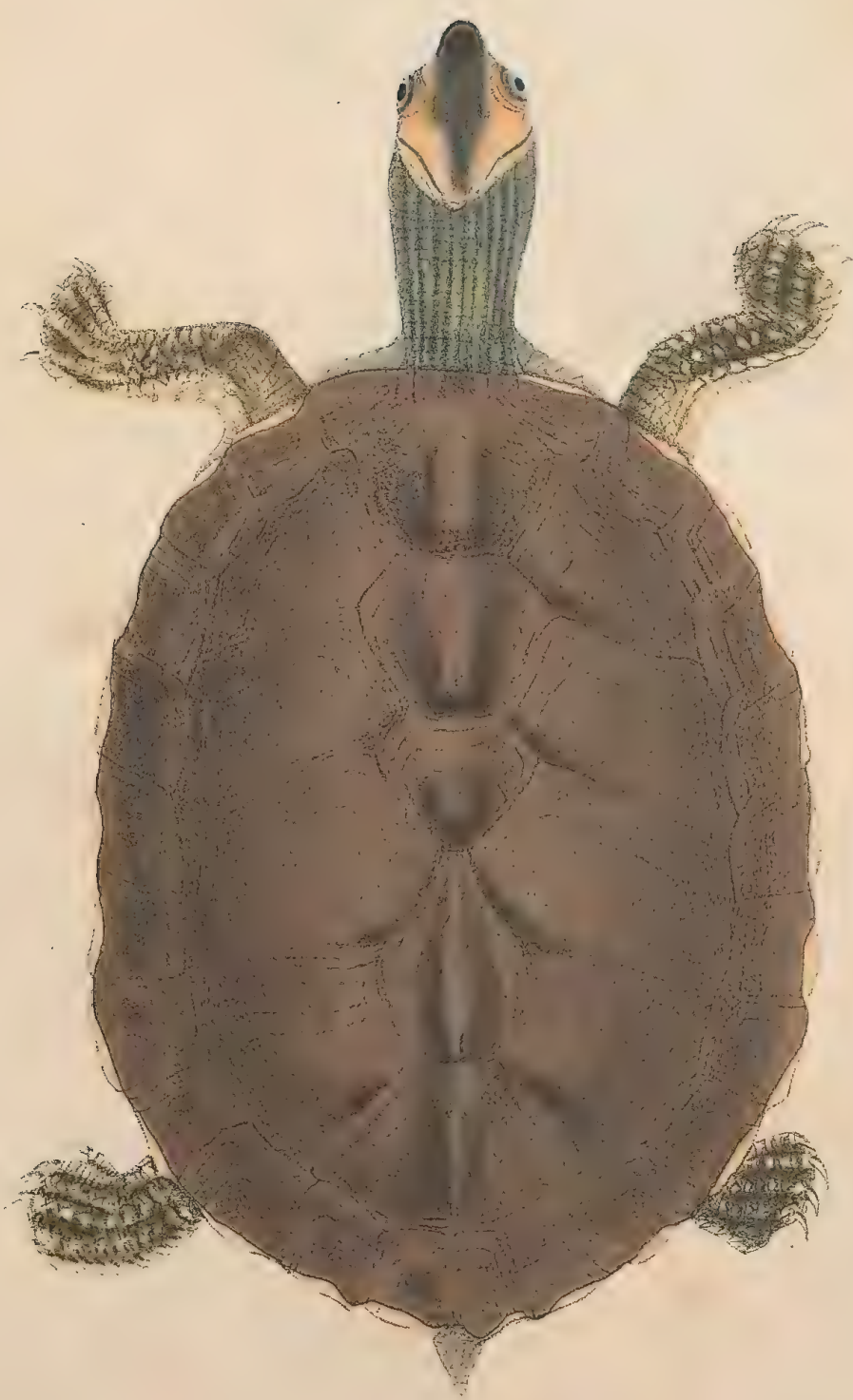
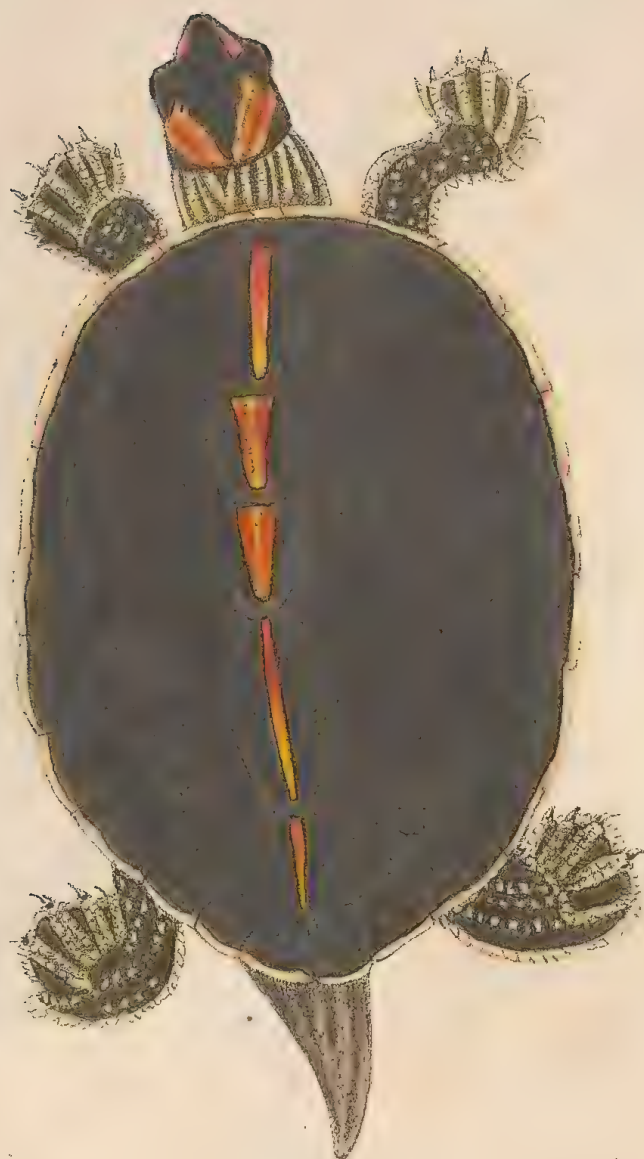
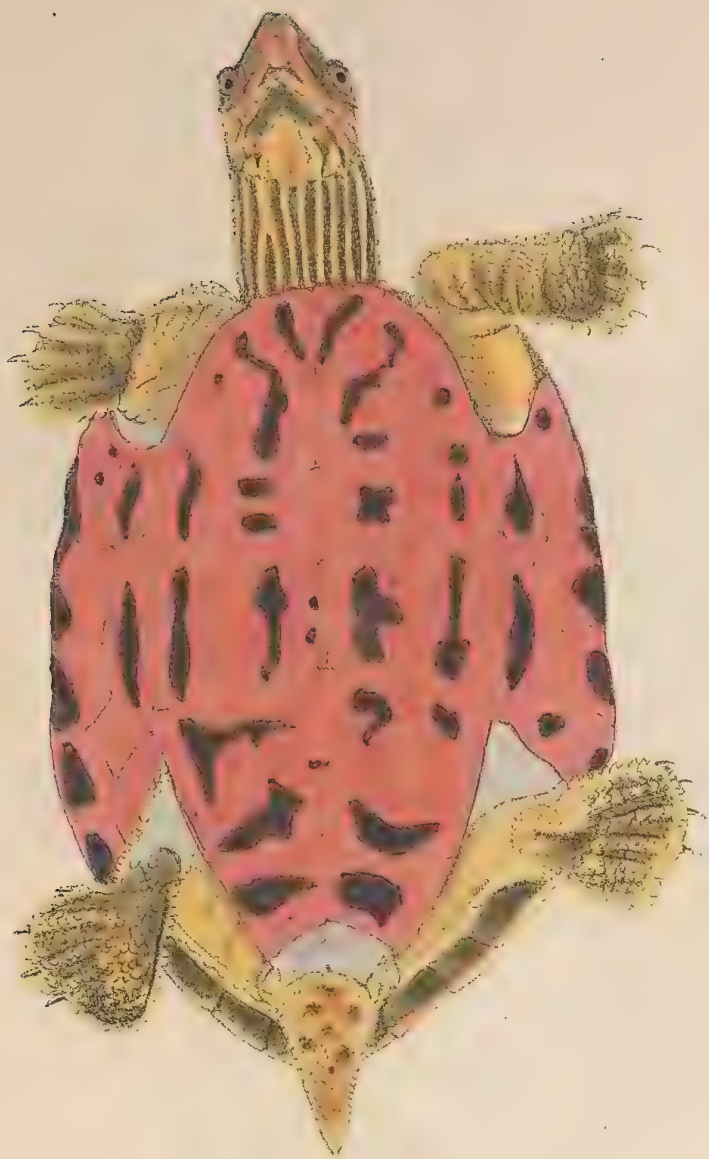
1. JAVAN TERN. Lath. H. STERNA JAVANICA Horsf. (female)
 2. ALLIED TERN. STERNA SIMILIS. Nob.
 3. BROWN BELLED TERN. Lath. H. STERNA ACUTICAUDA nob. male



On Stone by Waterhouse Hawkins.

Printed by Engelmann & Co.

CRABO JAVANNICA (Horsf) JAVAN CORMORANT.



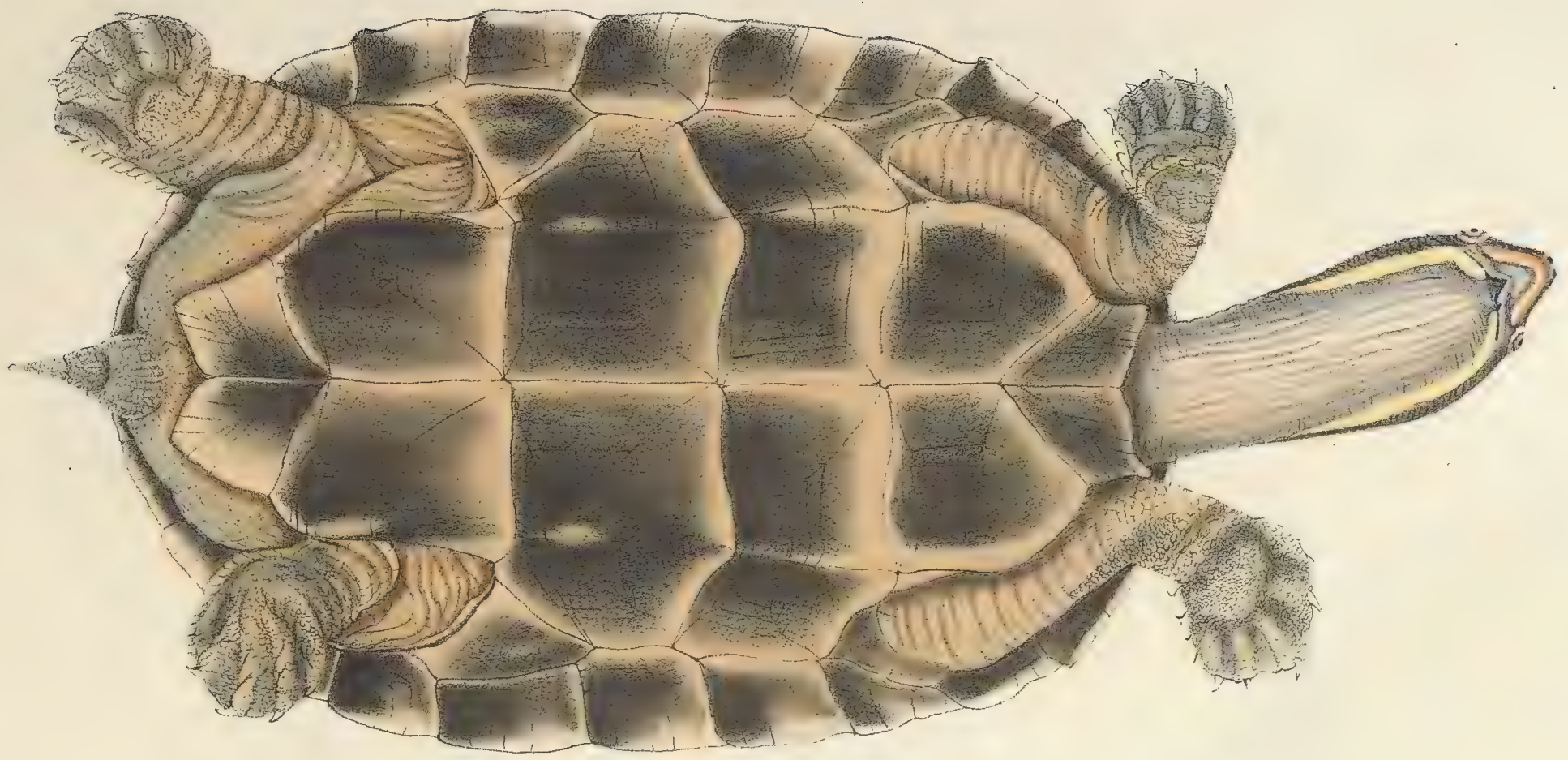
B. W. Hawkins, lith.

LEAVED TERRAPIN. EMYS TECTUM. Bell Mfs.

From Dr Buchanan Hamiltons Drawings.

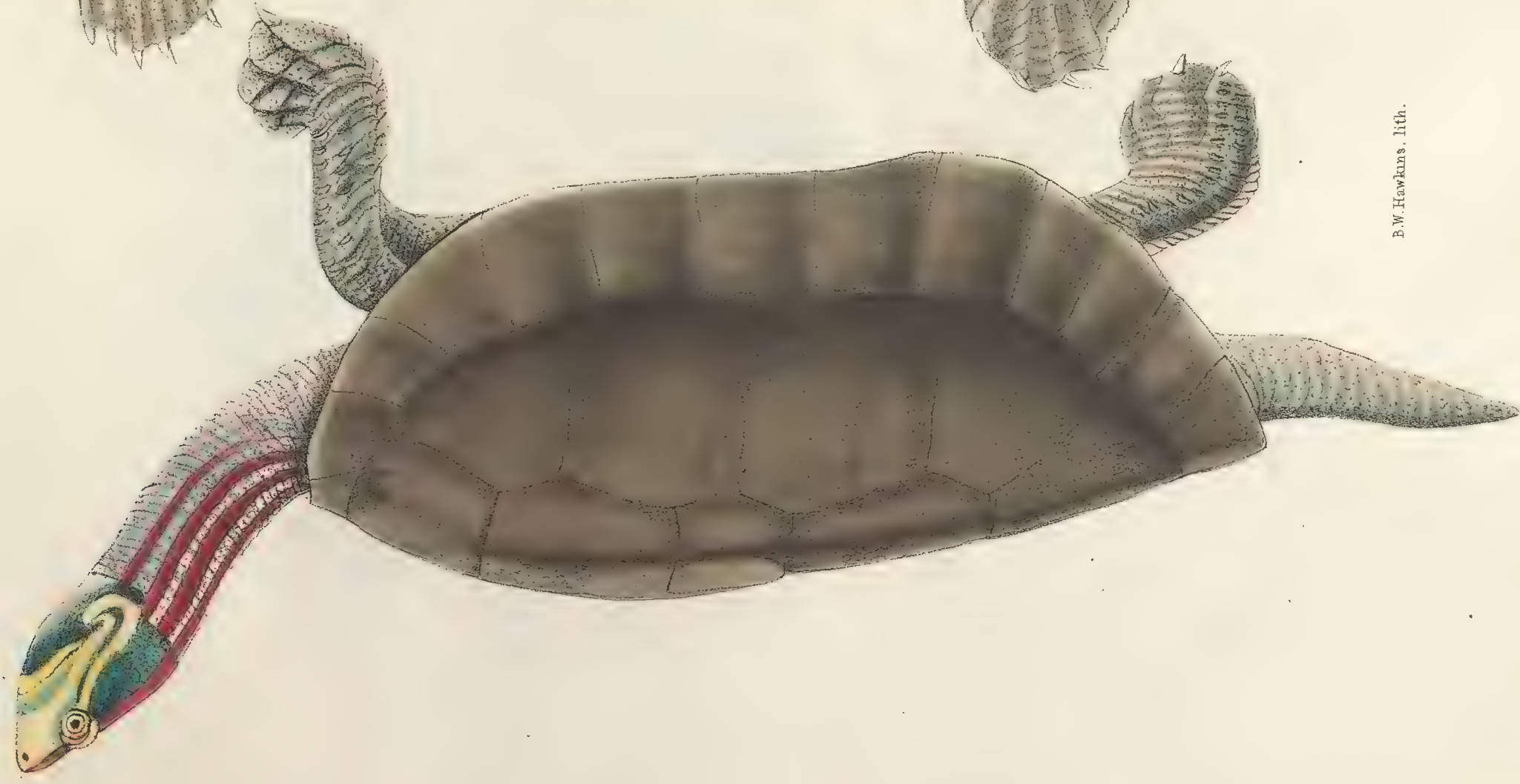
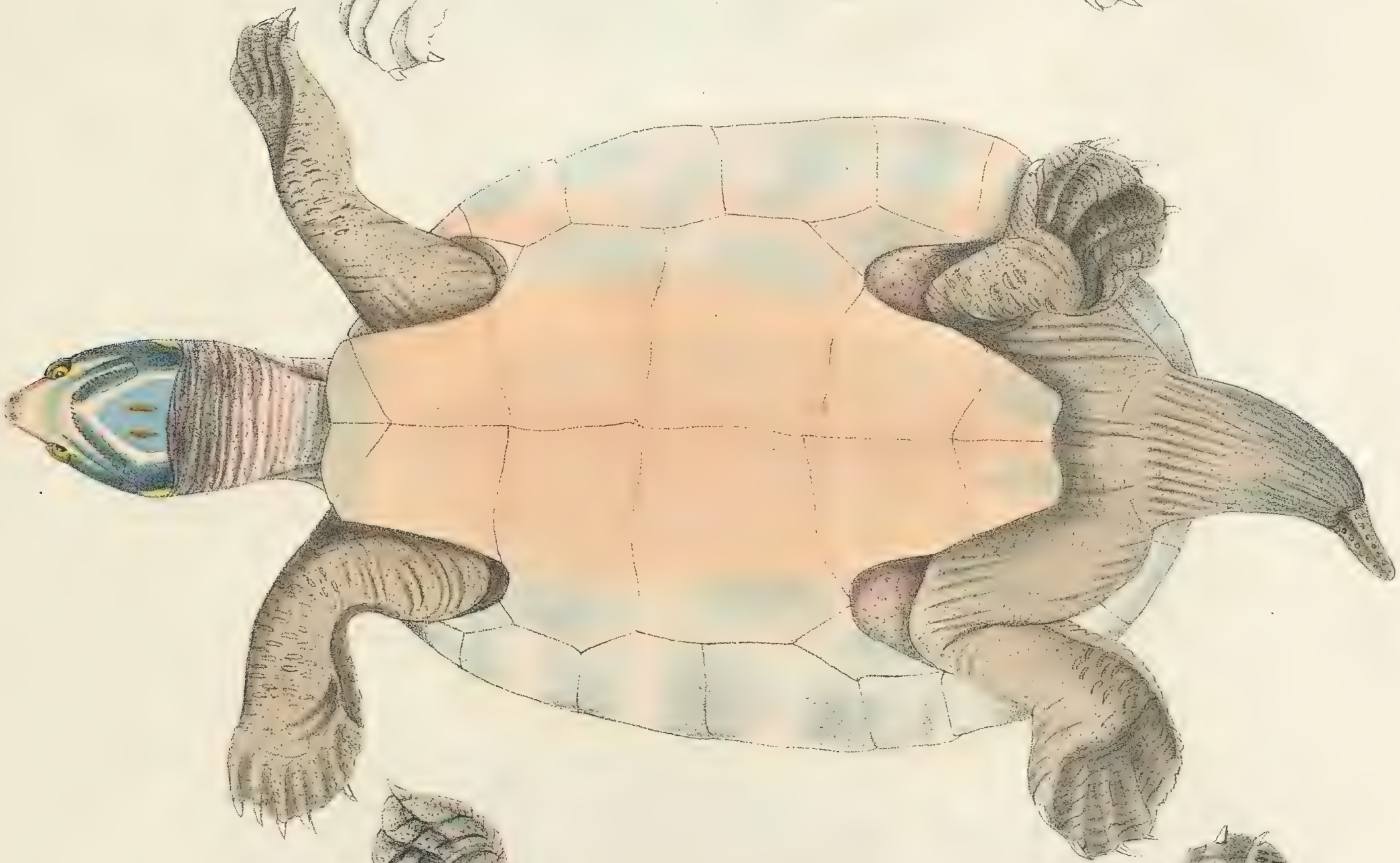
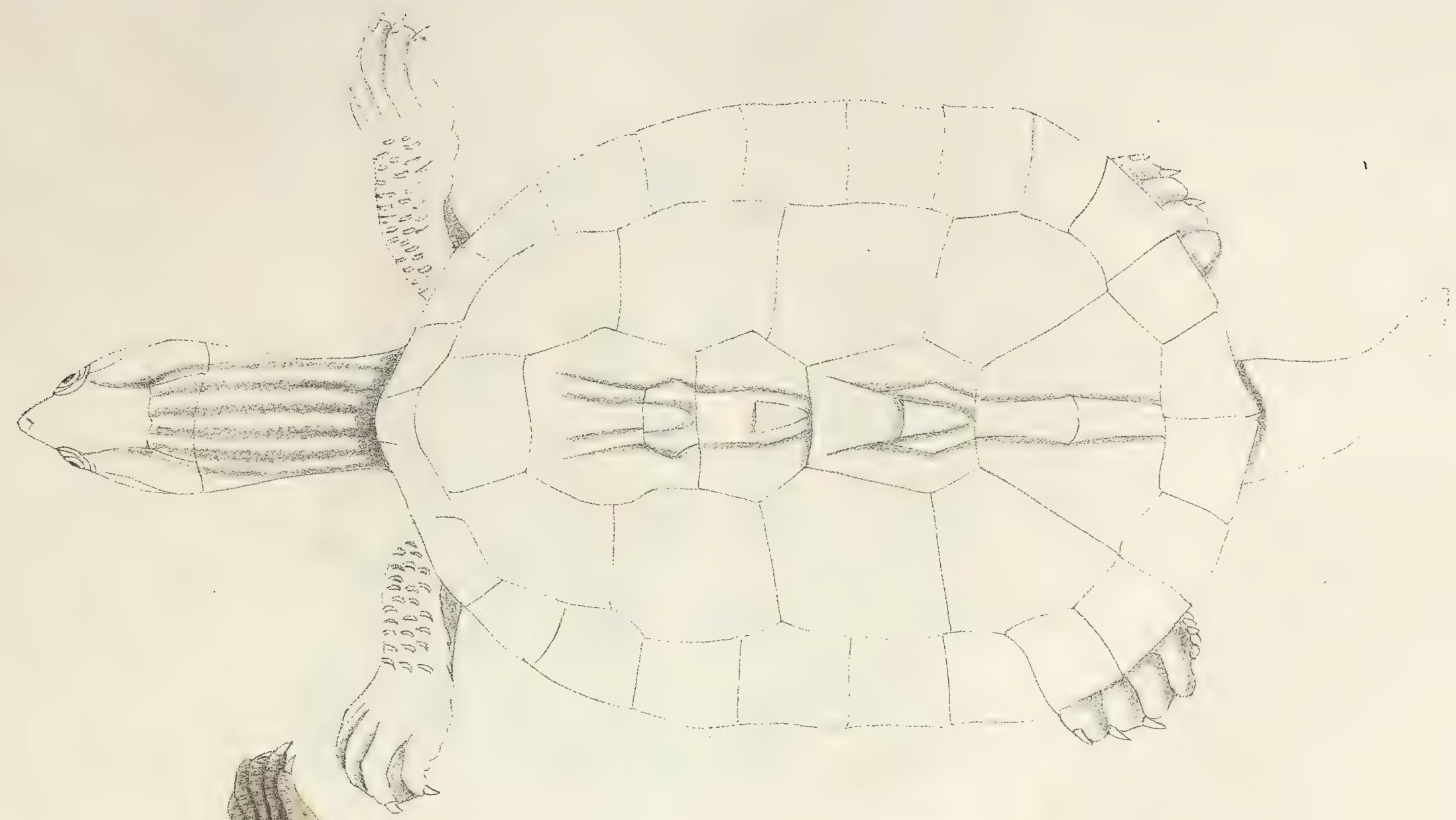
India.

Published by Parbury Allen & Co. Leadenhall Street.
Printed by W. Day.



THUJI TERRAPIN. n. E.MYS THUJIN.

From D^r Buchanan Hamilton's Drawing
 Published by Parbury, Allen & Co. Leadenhall St.
 Printed by W. Day



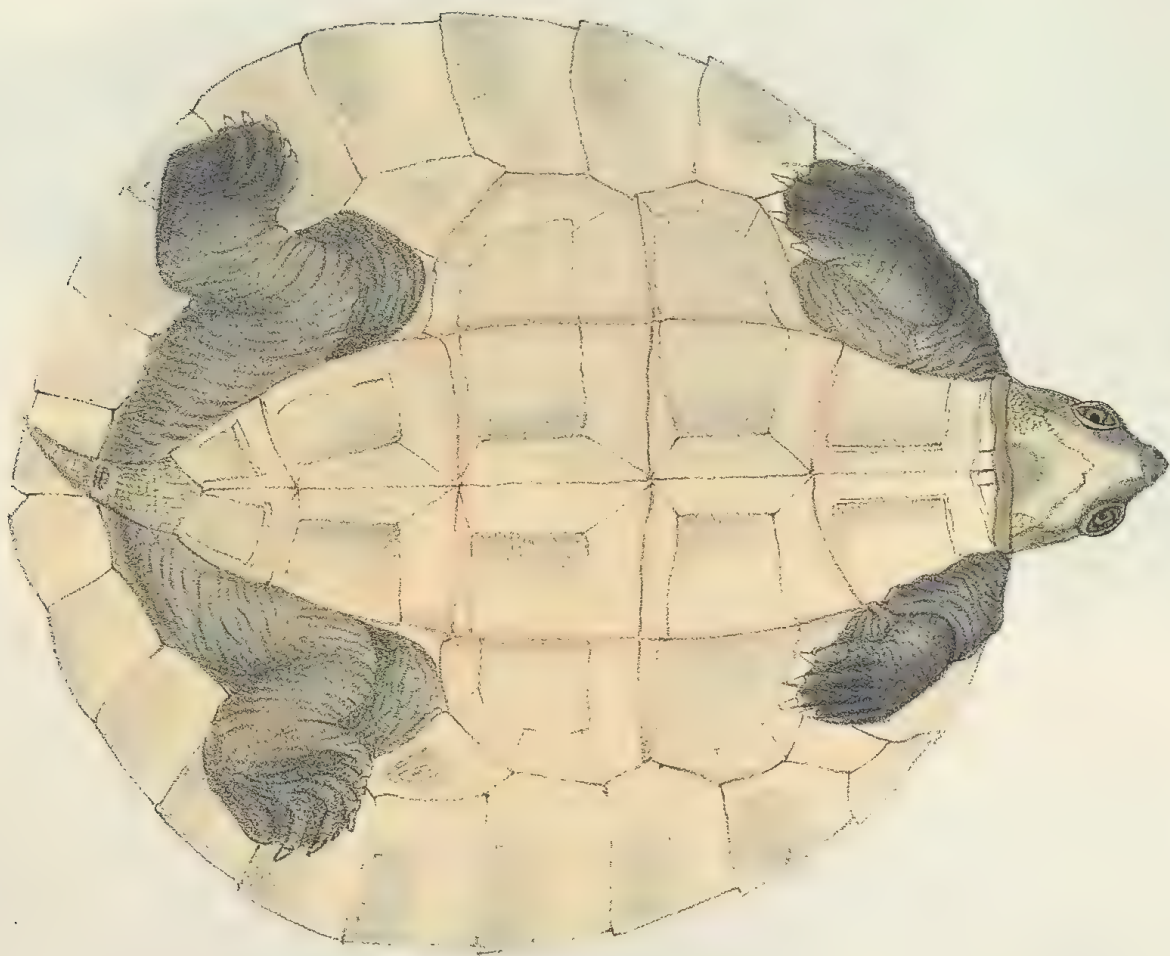
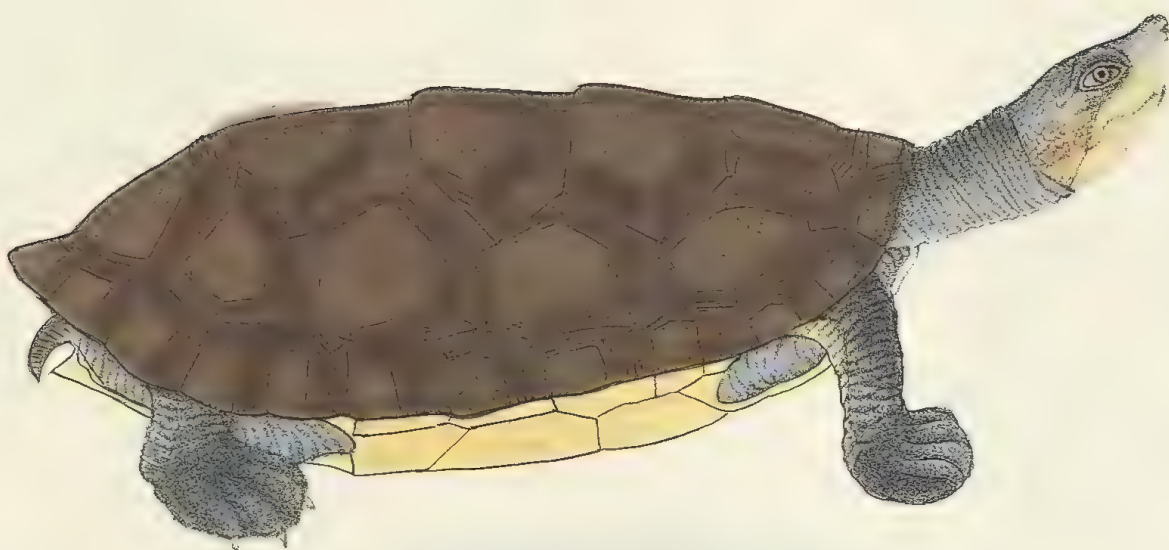
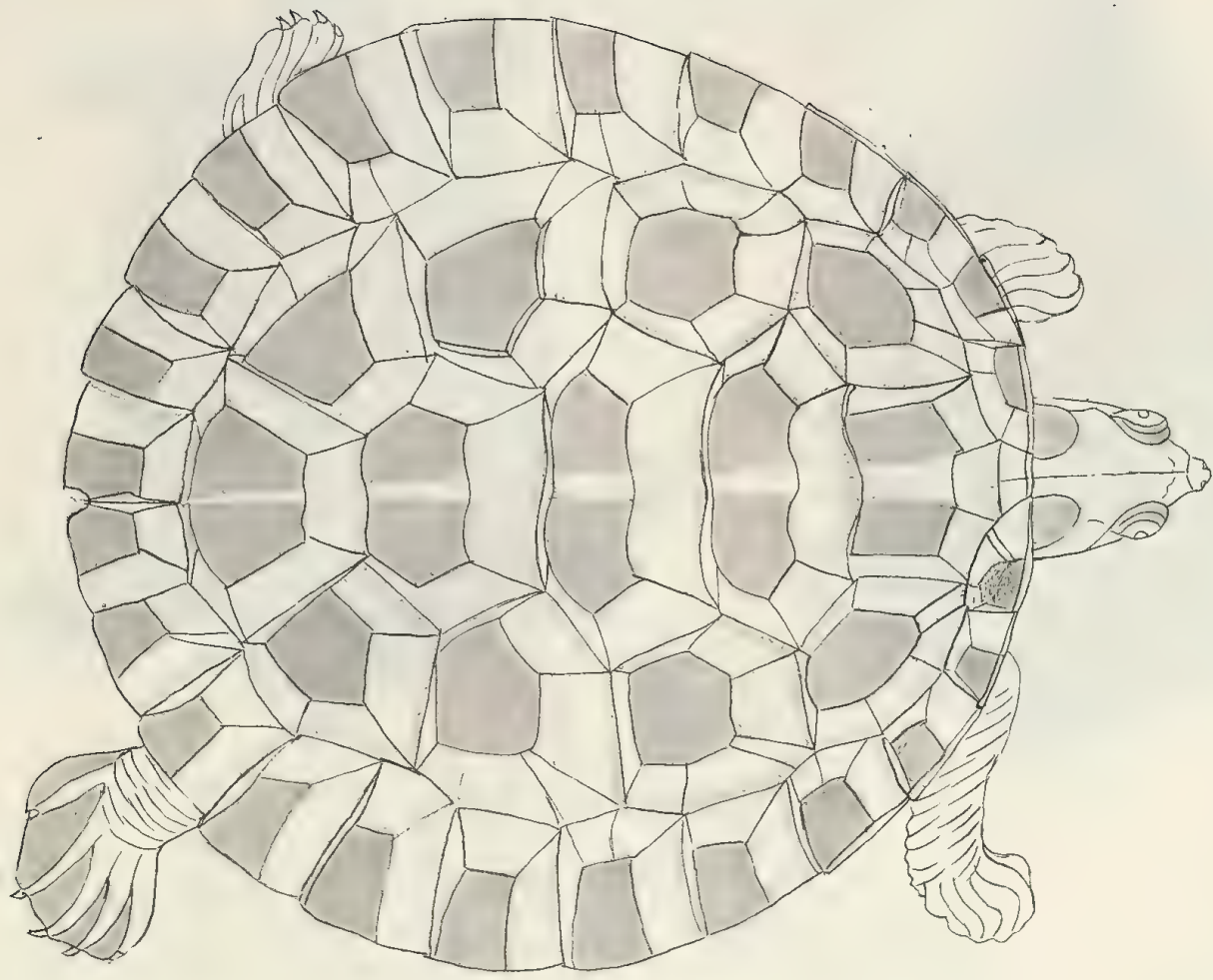
B.W. Hawkins. lith.

KACHUGA TERRAPIN. E.MYS KACHUGA.

From Dr. Buchanan Hamilton's. Drawings.

India.

Published by R. & C. Loderhall Street
Printed by W. Day.

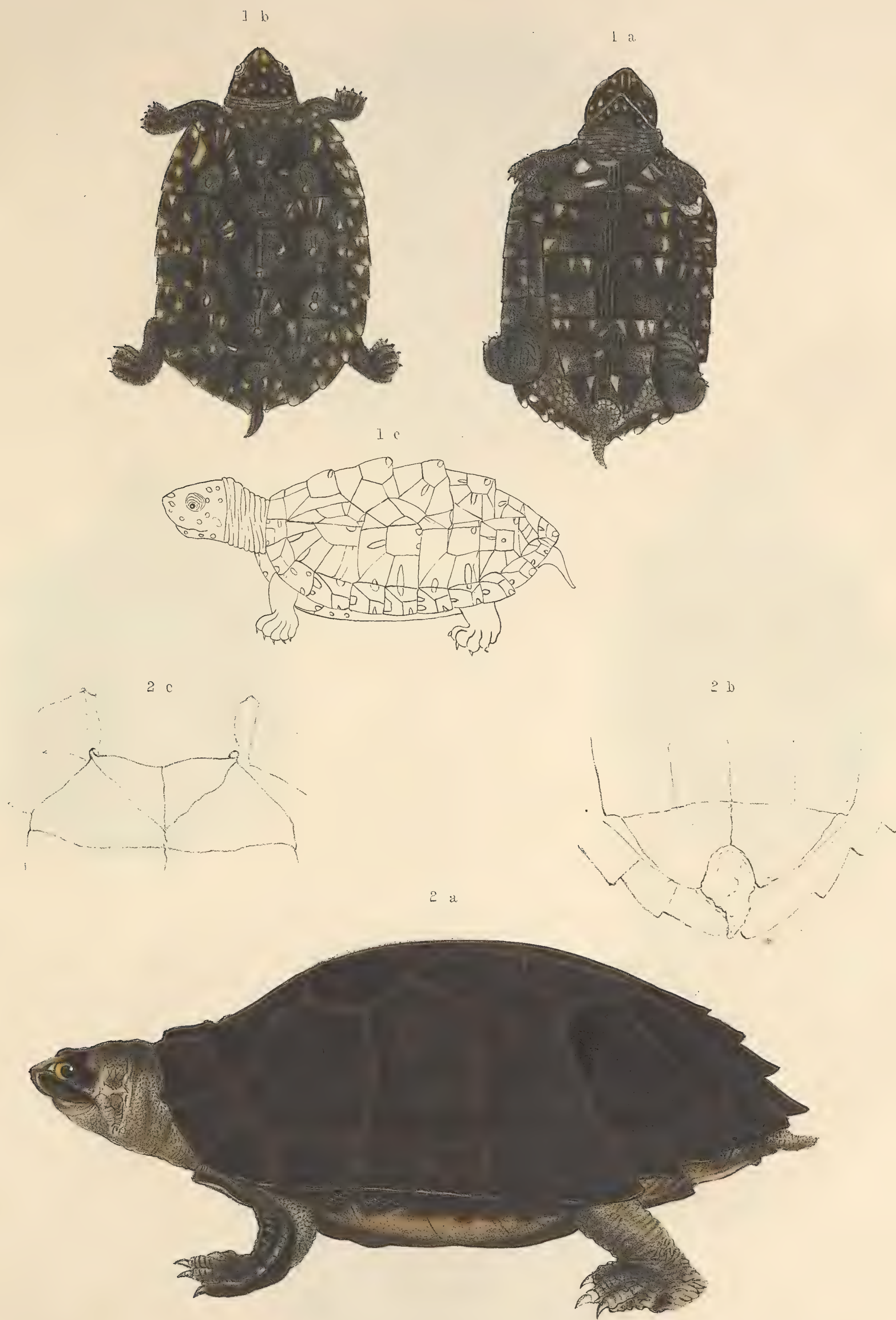


Morley del

BASKA TERRAPIN. n. EMYS BASKA. n.

From Dr Buchanan Hamilton's Drawing.

Published by Portbury Allen & Co. Leadenhall St.
Printed by W. Day.



1.....SPOTTED TERRAPIN. EMYS GUTTATA n.

From D^r Buchanan Hamiltons Drawings.

2.....THICKNECKED TERRAPIN. EMYS CRASSICOLLIS. Bell Mjs.

Mus D^r Bell.

Published by Messrs. Treuttel Wirtz & Co. Soho Square
Printed by W. Day.

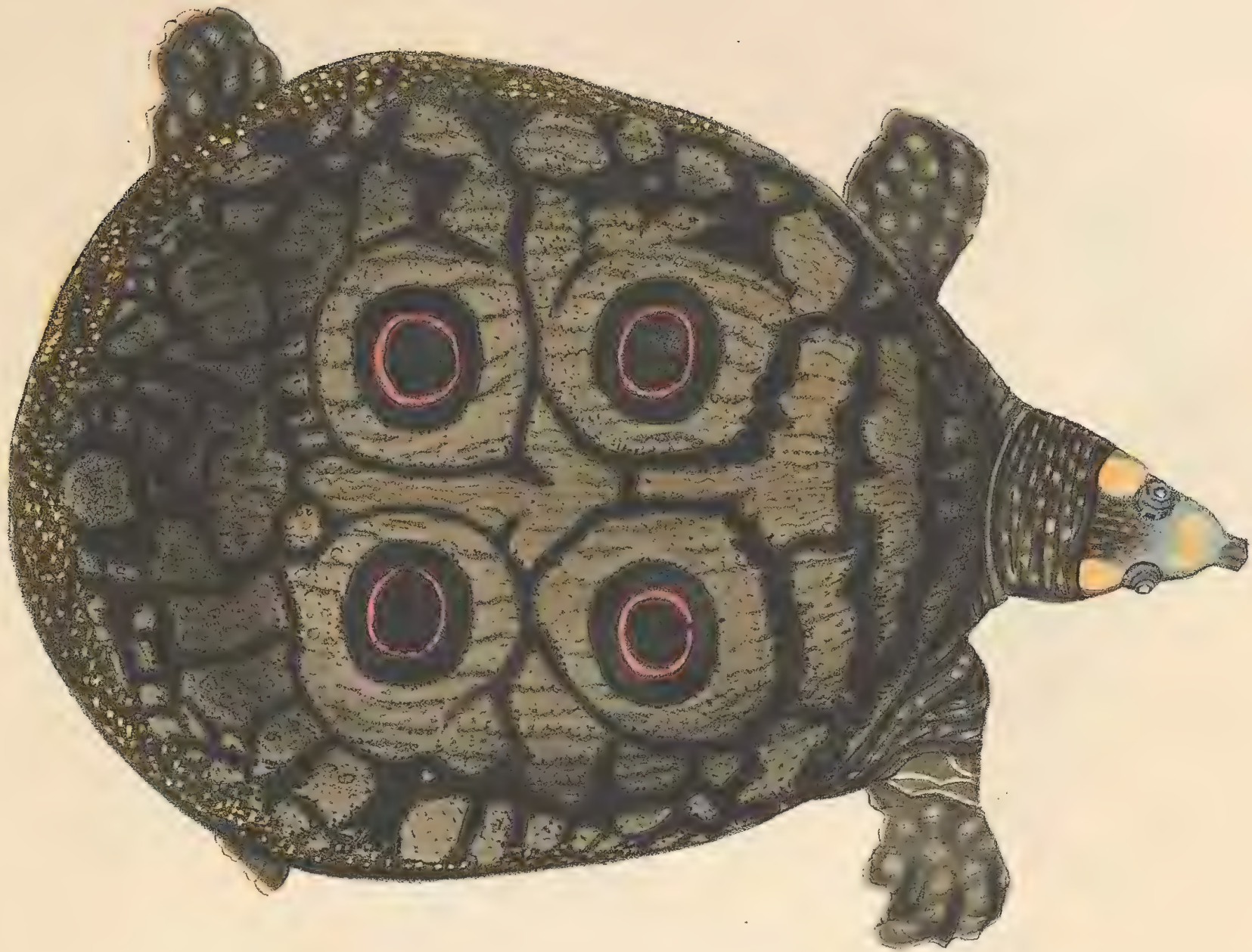


1 . 2
EMYS SPINOSÆ. Bell. Penang.

3 . 4
CISTUDA AMBOINENSIS. Amboina. — Nat. Size.

B.W.Hawkins lithog.

Published 1829, by Parbury, Allen & Co. Leadenhall Street.
 Printed by W. Day 17. Gate Street

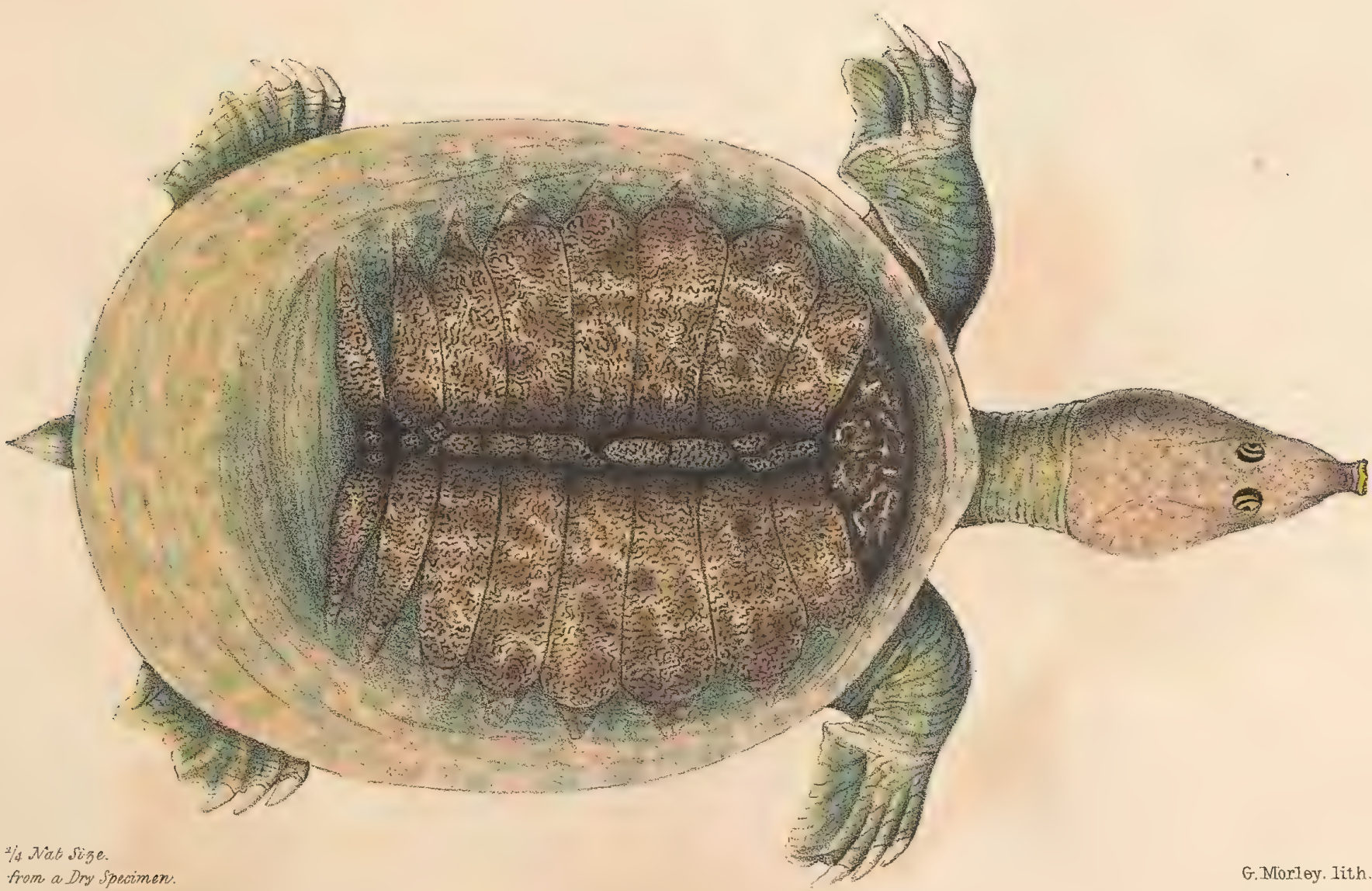


W.B.Hawkins lithog.

TRIONYX OCCELLATUS. n. EYED TRIONIX.

From D^r Buchanan Hamilton's Drawings.
India. .

*Published 1829 by Parbury Allen & Co. Leadenhall Street.
Day, lithog. 17 Gate St.*

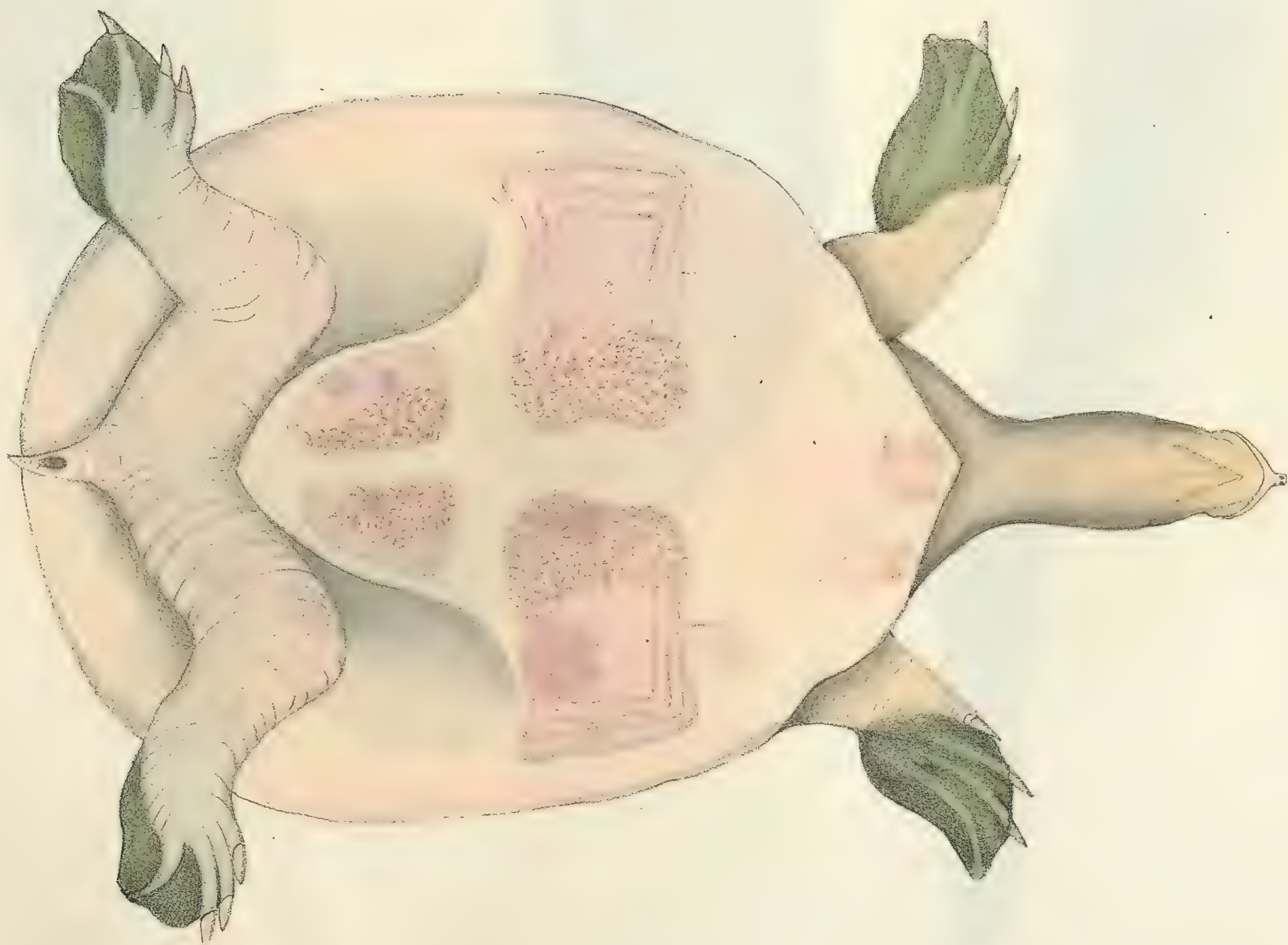
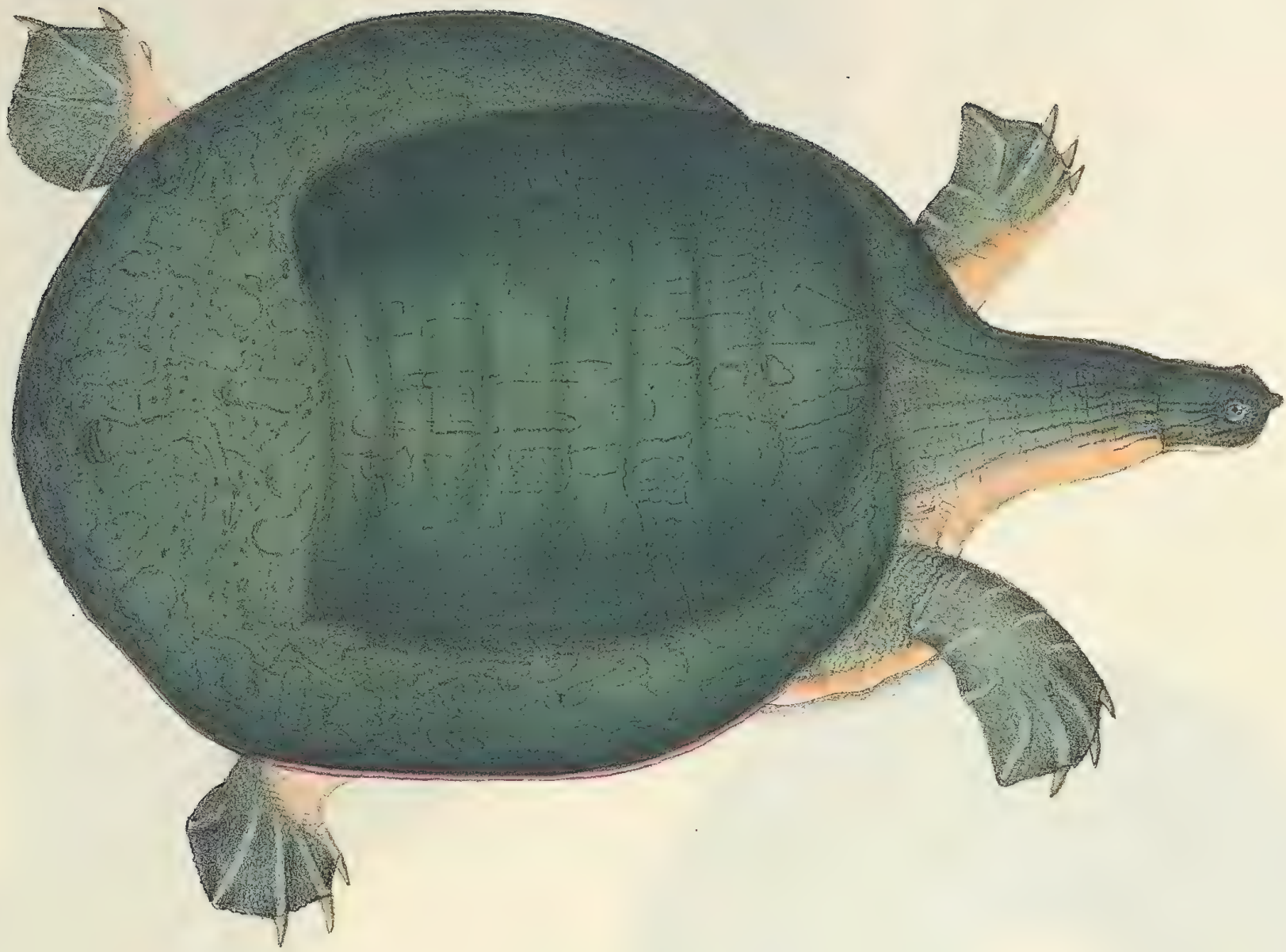


*2/3 Nat Size.
from a Dry Specimen.*

G. Morley. lith.

TRIONYX SUBPLANUS. Geoff. FLAT TRIONYX.
India.

*Published 1829 by Parbury Allen & Co. Leadenhall Street.
Printed by W Day 17 Gate Str.*



TRIONYX AEGYPTIACUS. Var. Indica. n. EGYPTIAN TRIONYX. Indian. Var.
Ganges, called Sewteree, sometimes grows to 240 lbs.

*Published 1829 by Parbury Allen & Co. Leadenhall Street.
Printed by W. Day 17 Gate Street*



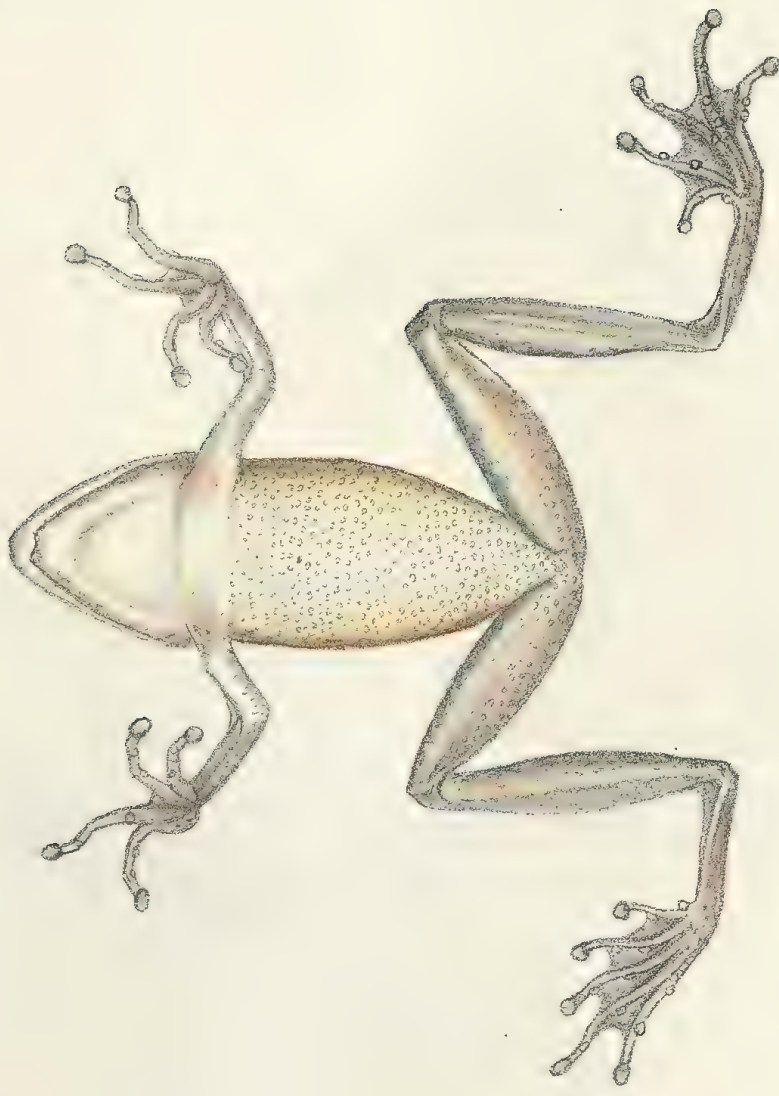
18

THE SNAKE COIL

1



1a



1, 1a. EYLA MACULATA, n. SPOTTED TREE-FROG.
BENGAL.



2a



2, 2a. RANA BENGALENSIS, n. BENGAL FROG.
BENGAL.

2a

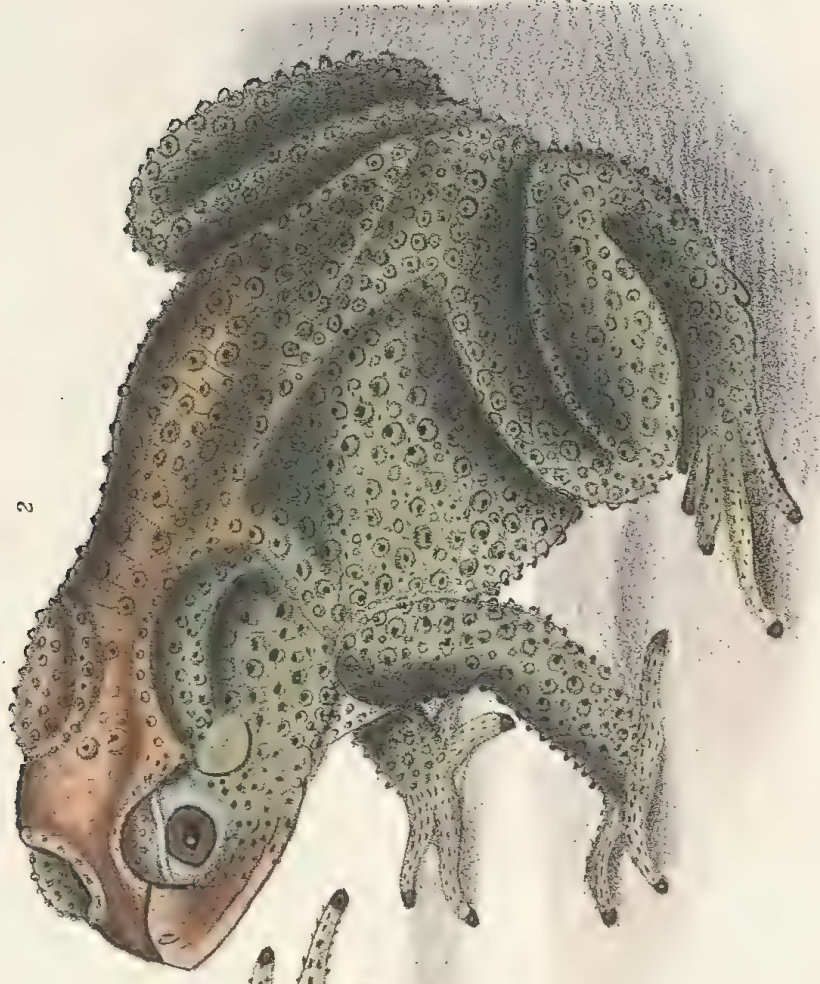


1



RUFOCARINATUS n. KEELED NOSED TOAD
BENGAL

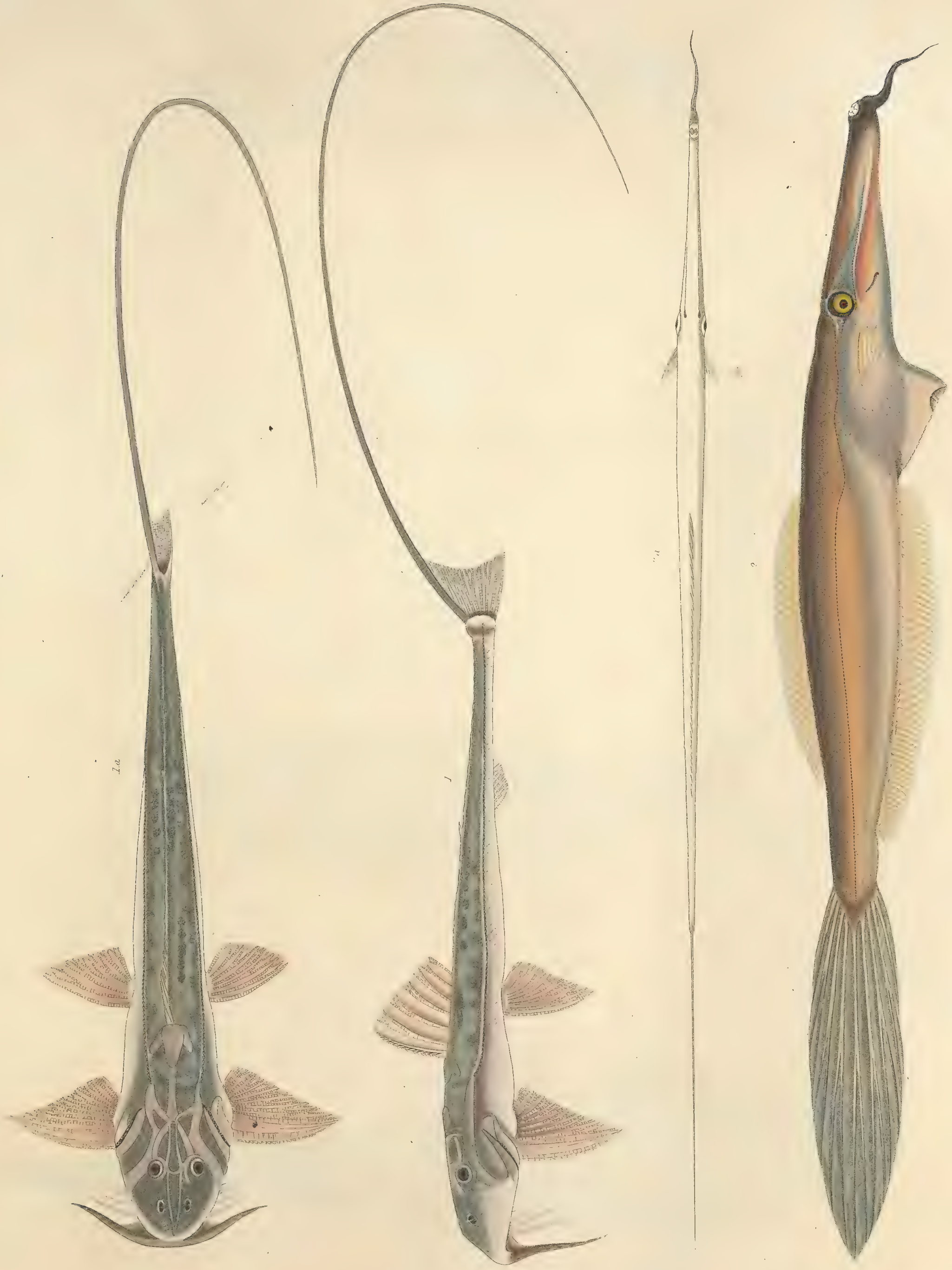
2



RUFODUBIA n. DOUBTFUL TOAD. Shaw.
BENGAL.

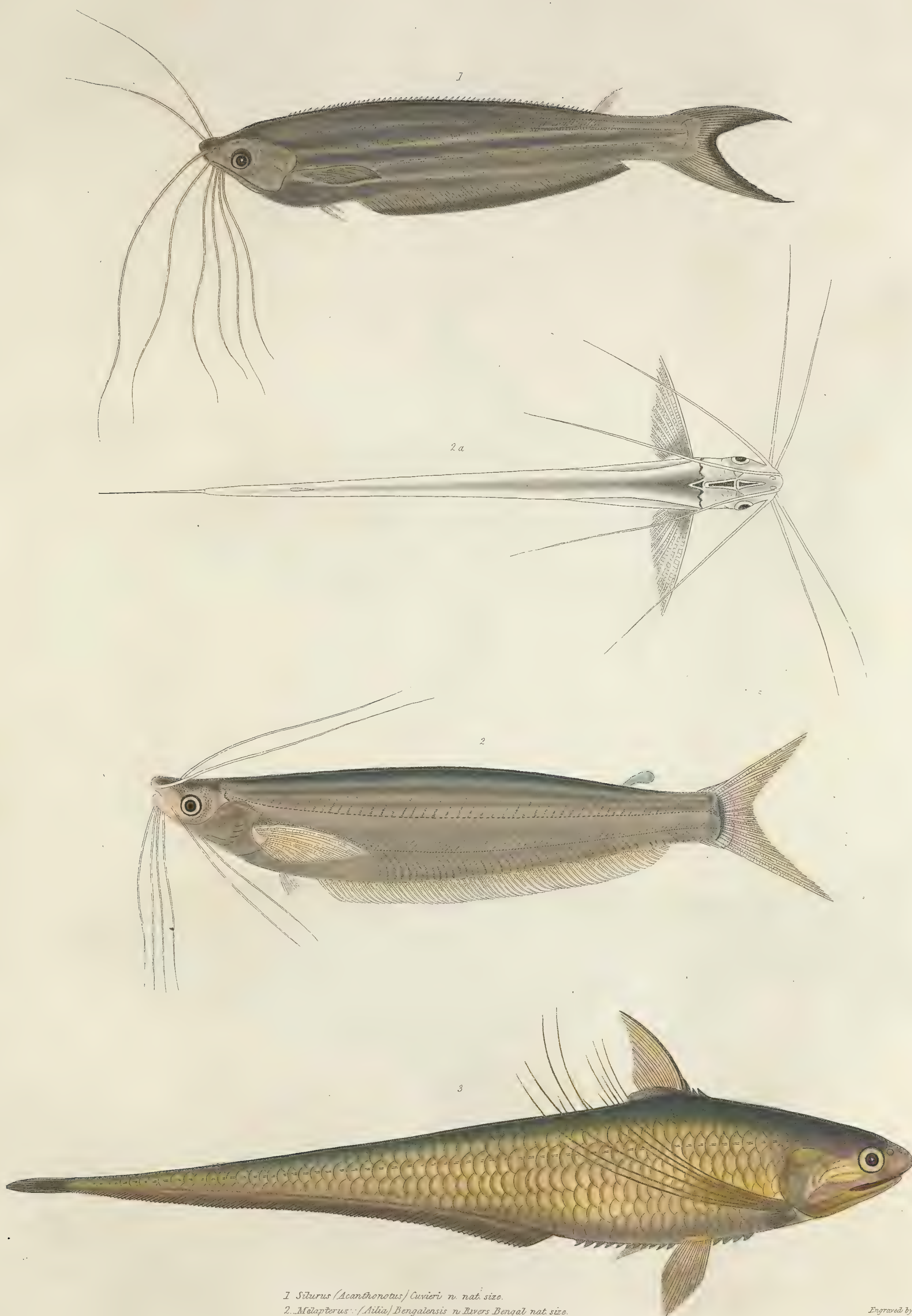
London: Published Sept. 1889, by Parbury, Allen & Co. Leadenhall St.
Printed by Eyre & Spottiswood, 15, Avebury St.





1 *Naso barbiphorus* Hamilton. Anna 1. n. nat. size
2 *Balistes / Anacanthus / barbatus* n. Singapore. nat. size

Engraved by J. S. G. 1829



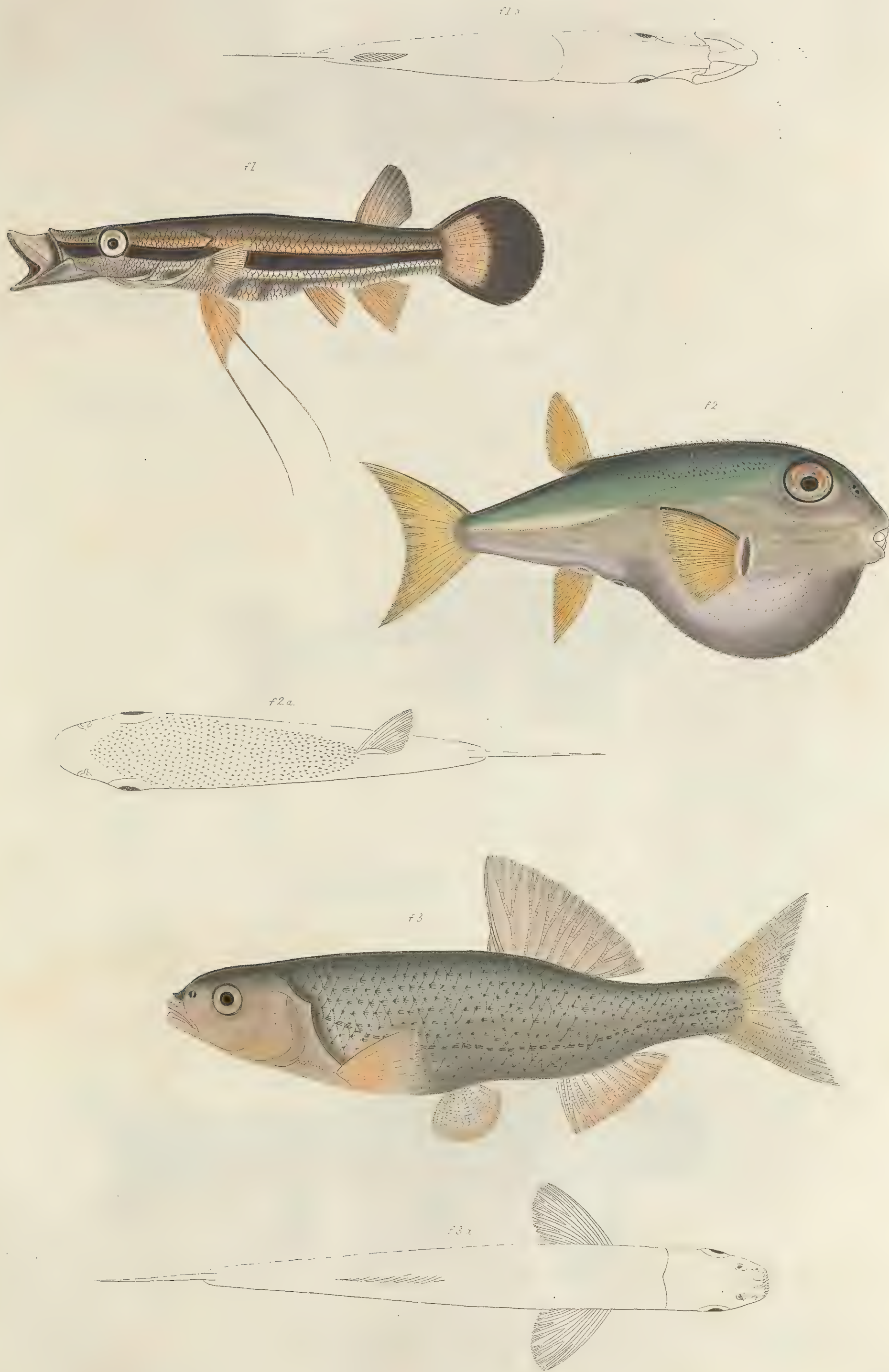
1. *Silurus (Acanthonotus) Cuvieri* n. nat. size.
 2. *Melapleurus (Alia) Bengalensis* n. Rivers Bengal nat. size.
 3. *Engraulis (Cottia) Hamiltonii* n. Rivers Bengal nat. size.

Engraved by J. Swaine



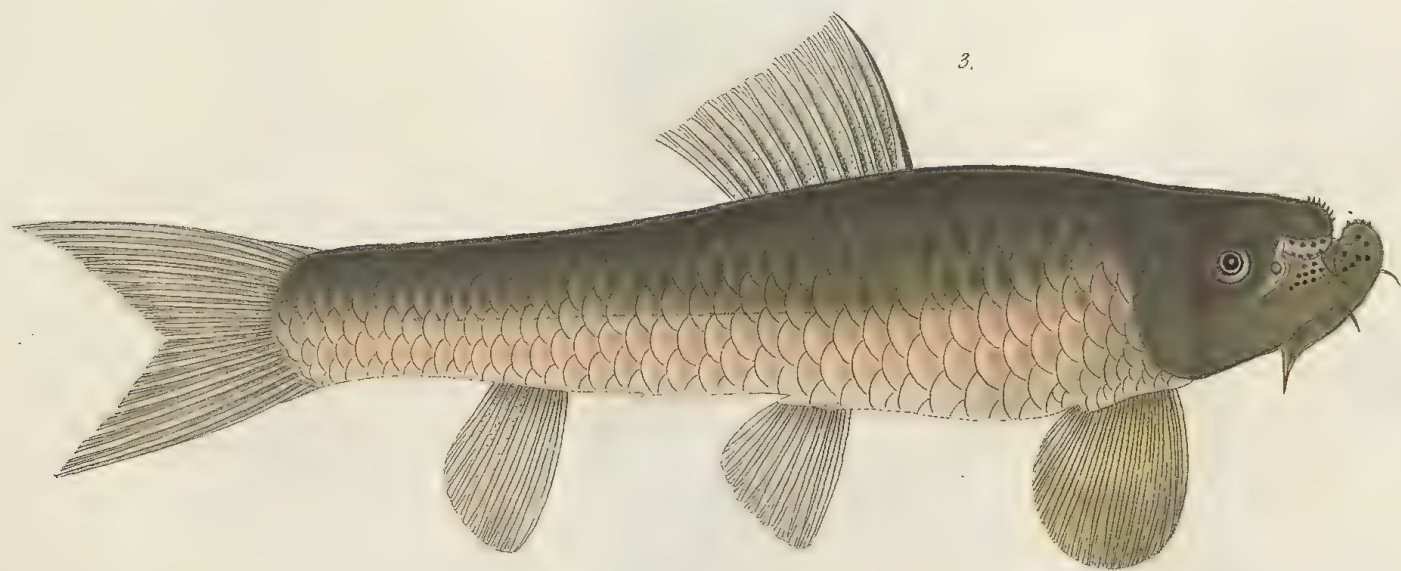
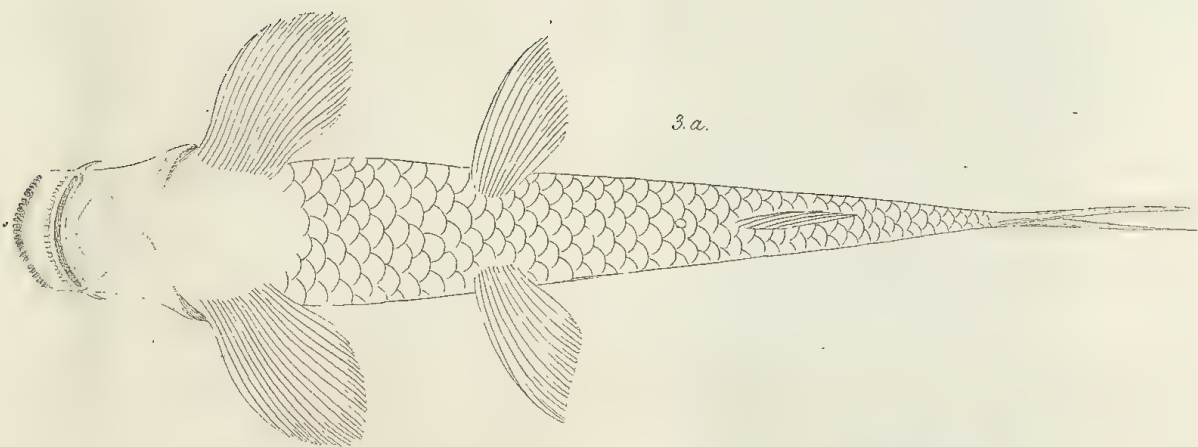
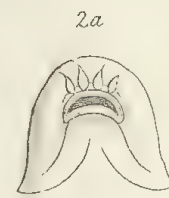
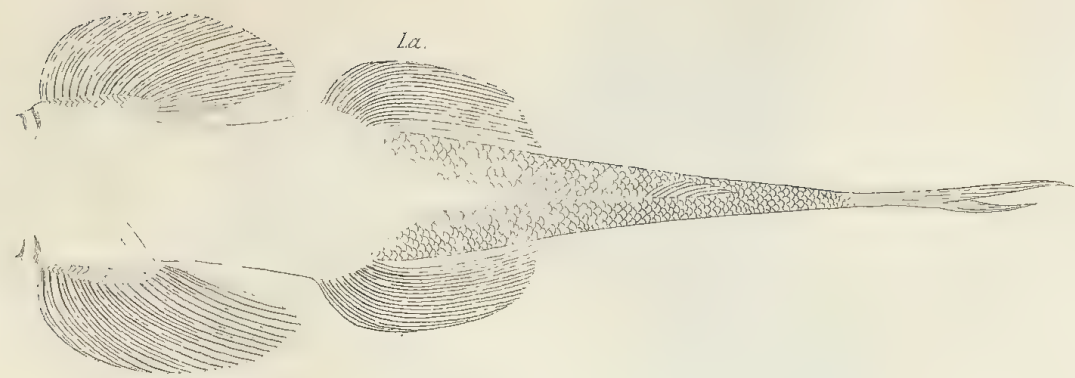
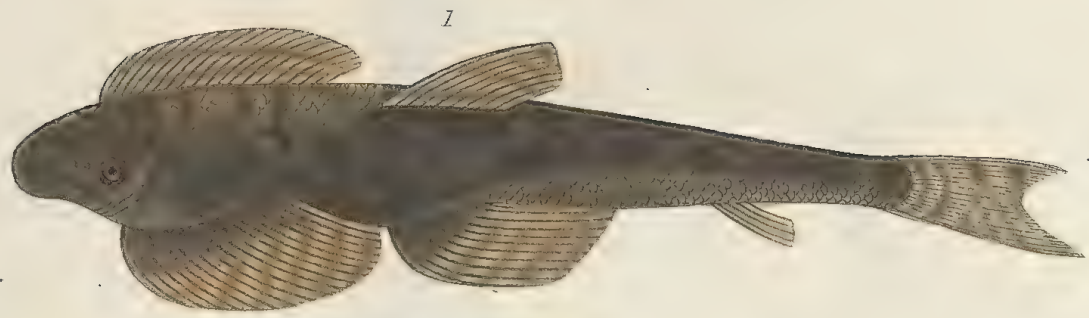
1. *Cyprinus/Bangana/Hamiltonii* Gray nat. size
 2. *Cyprinus/Leuciscus/Goha/Hamilton*. nat. size Kosi & Son River.

Engraved by J. Swains.



- 1 *Diplopterus pulcher* Gray nat. size.
- 2 *Tetraodon lineolatus* Gray Indian Ocean nat. size.
- 3 *Cyprinus carpio* Hamilton Rivers of Bengal nat. size.

Engraved by J. Swaine



1. *Balitora Brucei*. Gray Mountain Stream, India.
2. *Balitora maculata*. Gray Mountain Stream, India.
3. *Cyprinus Gotyla*. n. Mountain Stream, India.

Engraved by J. Swaine

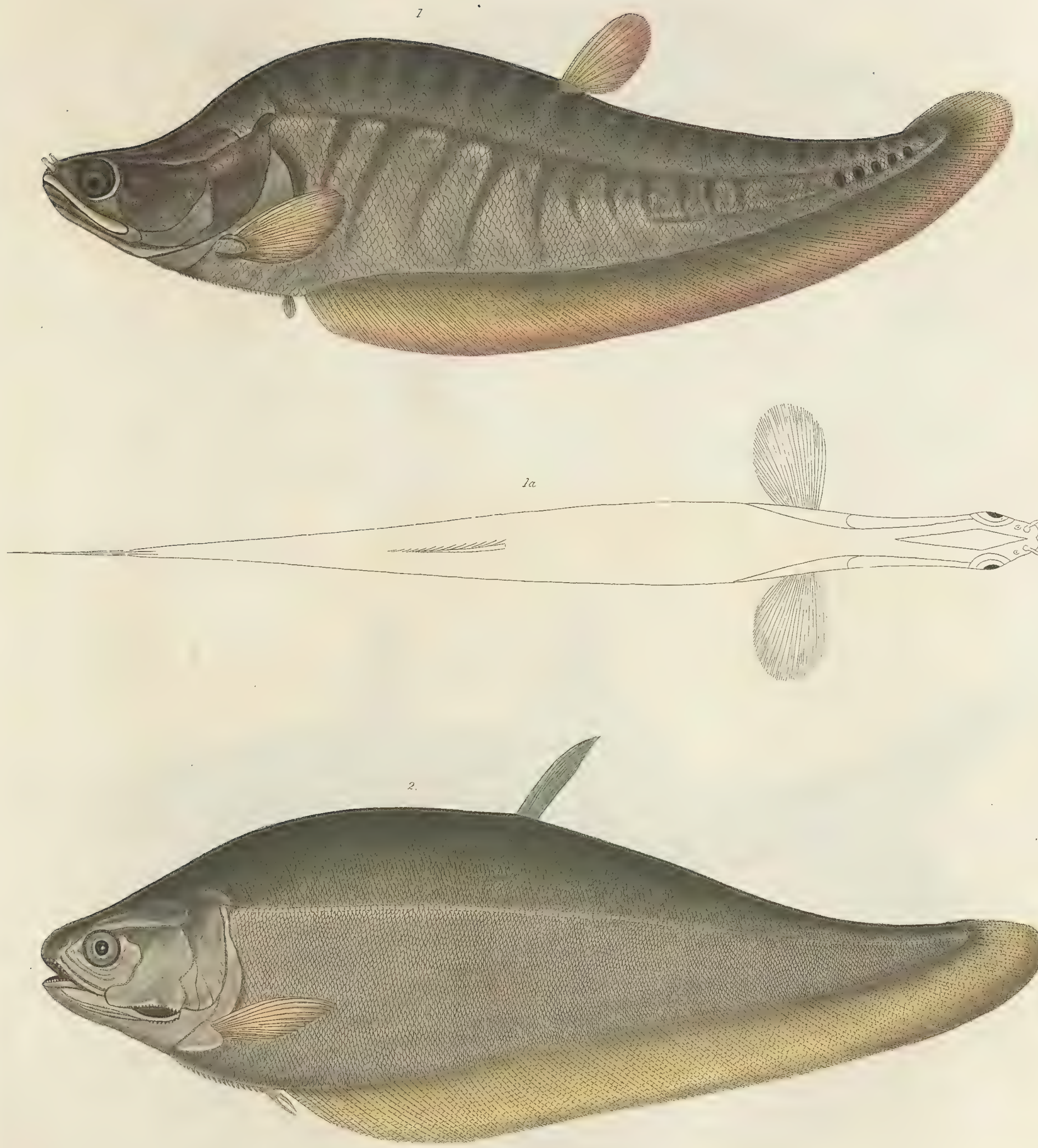


1. *Syngnathus Carce* Hamilton
2. *Syngnathus fasciatus* in Embryo
3. *Syngnathus Harlequin* in India
4. *Syngnathus Dookhata* Hamilton. Salt Water Lake, Bengal.

Engraved by J. Smith.

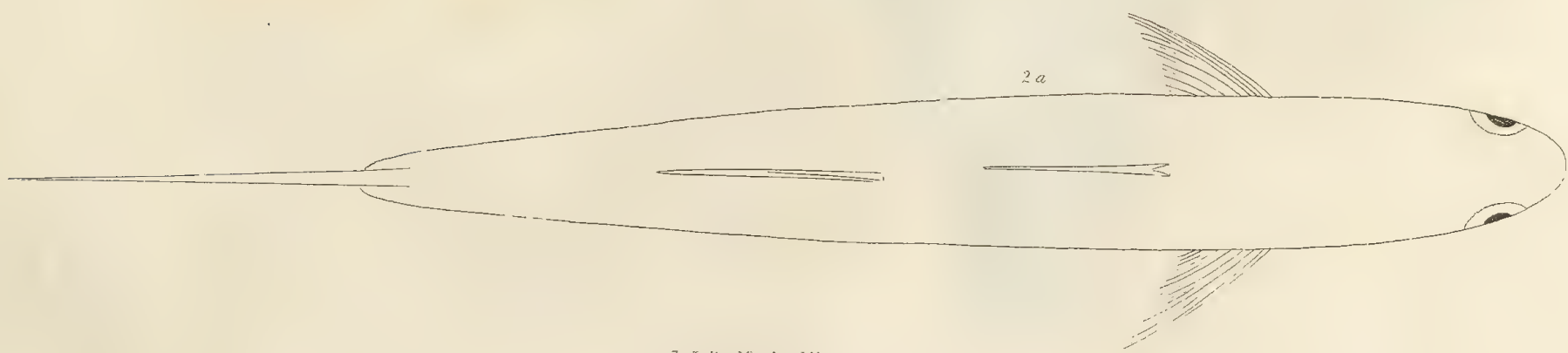
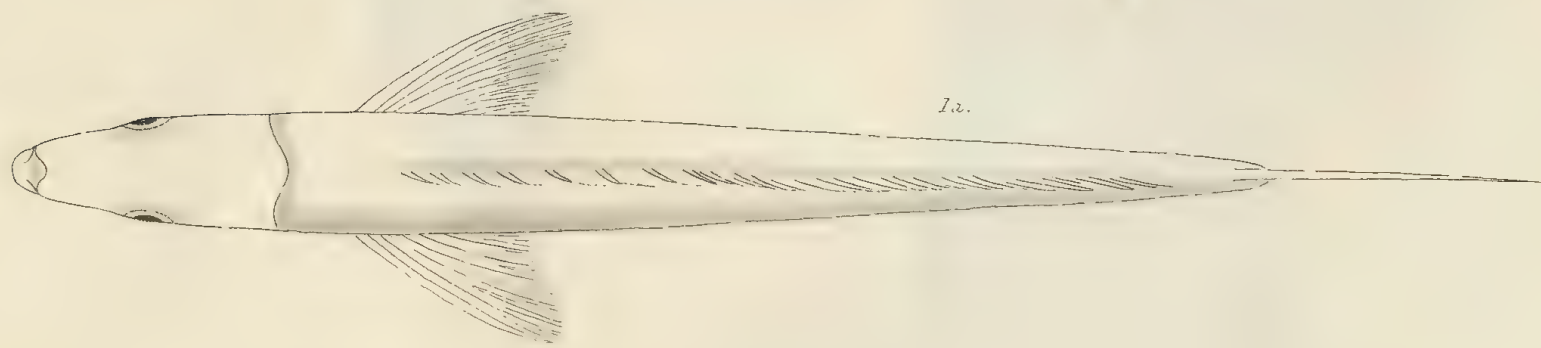
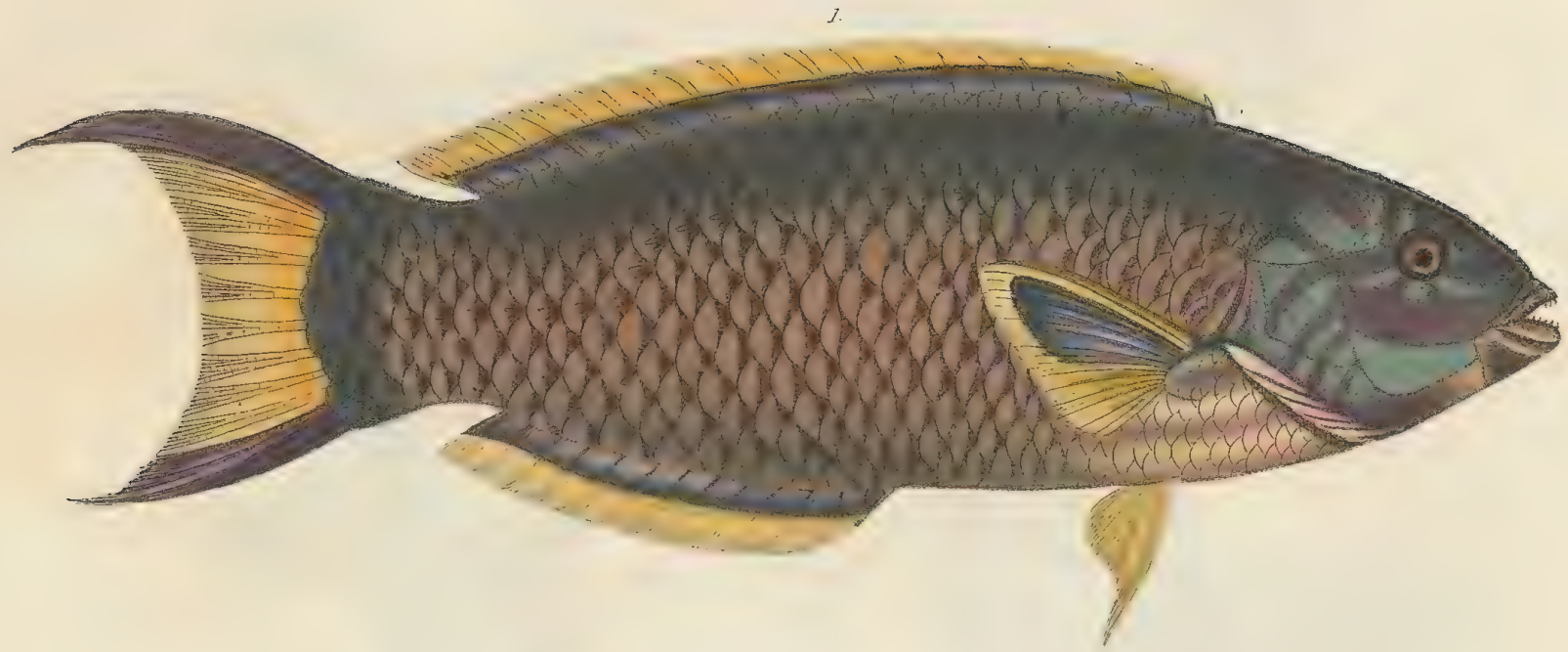


1. *Balistes oculatus* n.
2. *Ambonensis* n.
3. *Gubarmatus* n.



Engraved by J. Swaine.

1. *Mystus Chitala*, Ham.
2. *Mystus Karipat*, n.



1. *Julis Hardsukil* n.
2. *Polynemus Teria*. Hamn.



1. *Gyrinus Mosal* Hamilt.
2. *Morda* Hamilt.

Hankins & Co.

Published by Treutzel Würtz & Co. London.



1 *Cyprinus Tilos*, Hamn 276.
 2 — *Richardsoni* Gray.
 3 *Betia grandis*, Gray, *Almorah*, Brit mus.

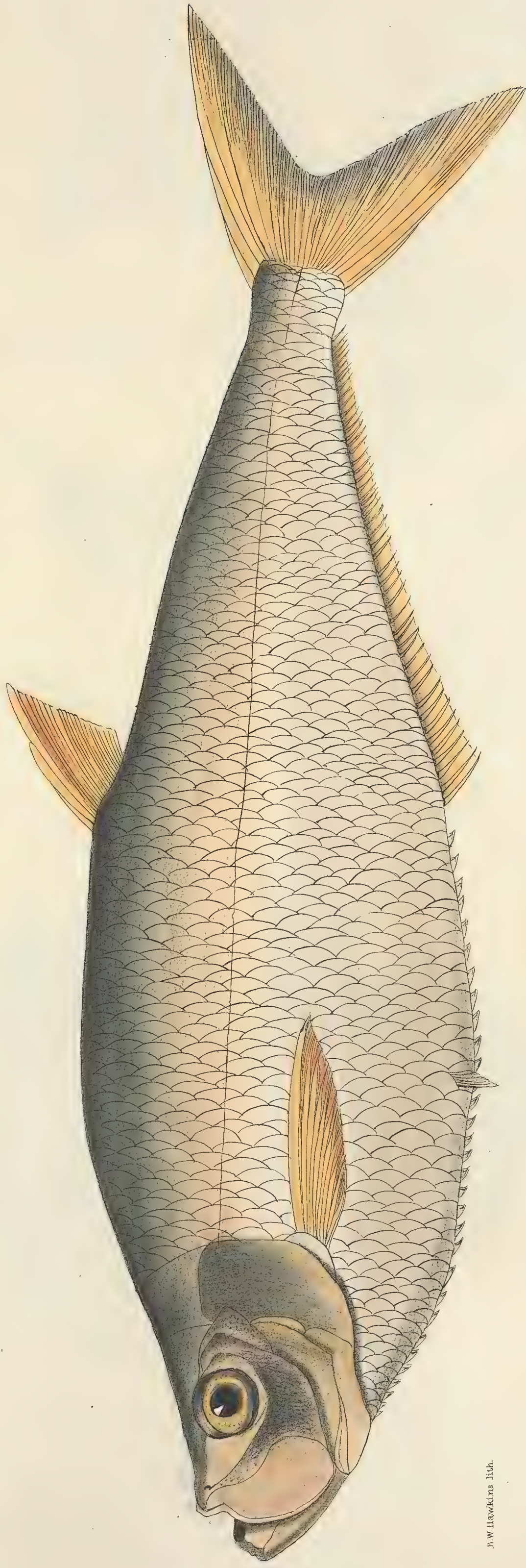
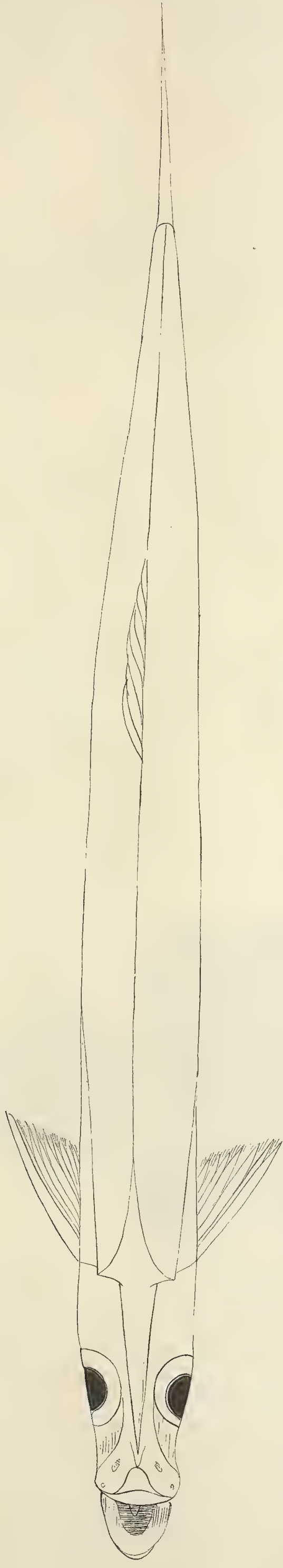


1. *OPHISURUS* BORO. Hamilton Mss.
 2. *OPHISURUS* HURANCHA. Hamilton.
 3. *MURÆNA* BENGALENSIS. n.

5. *MORINGUA* LINNÆUS. n.
 4. *EATAOURA* HARDWICKII. n.

London, Ed. 4 by Truettell, Woritz & Co's Scho Square.

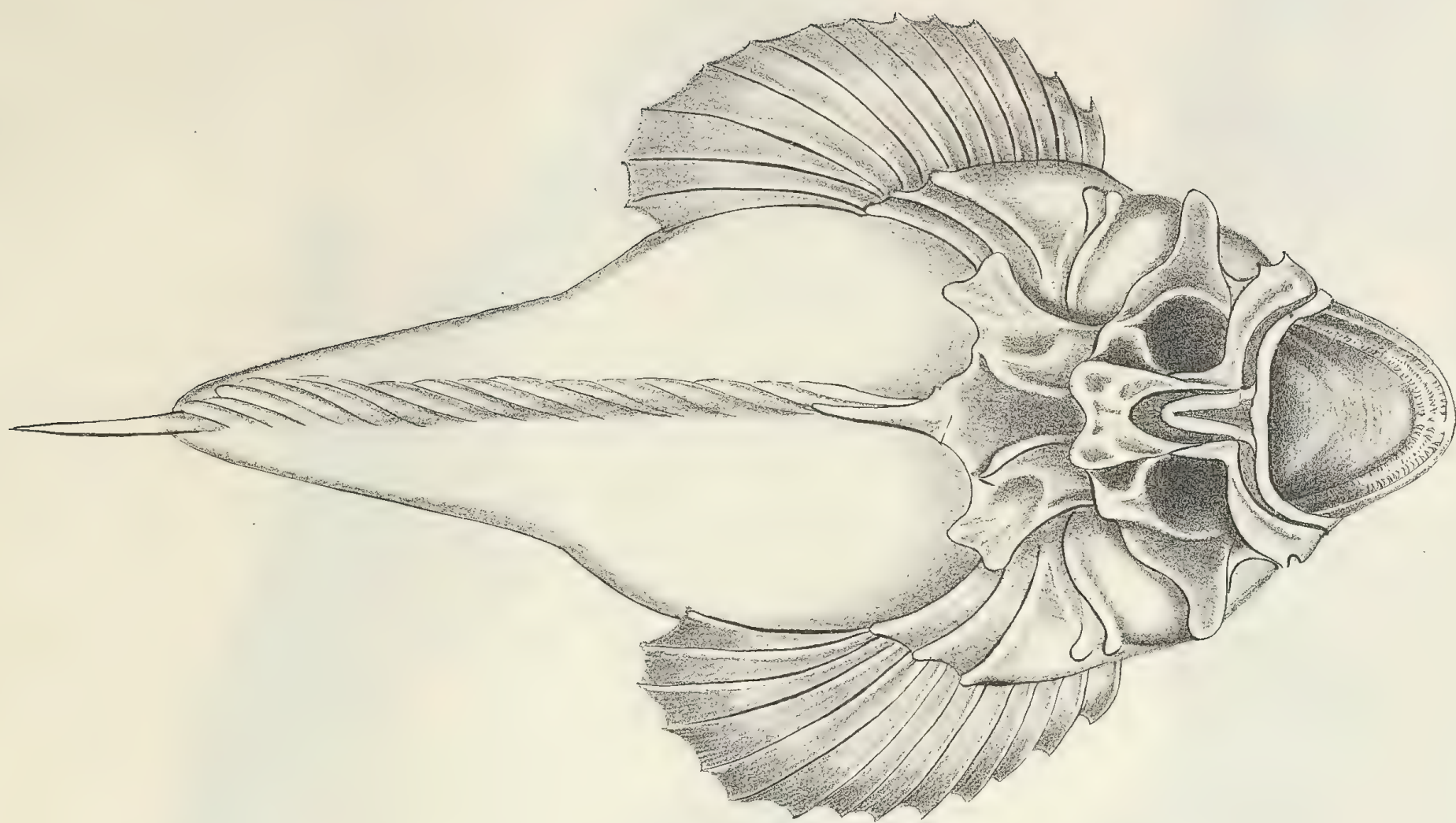
EW Hawkins del.



J. W. Hawkins del.

CLUPEA AFFINIS ALLIED HERRING.
Penang.

Published 1829 by Parbury Allen & Co. Leadenhall Str. London.
Printed by W. Day & Sons. St. Pauls Church-yard.



B.W.Hawkins lith.

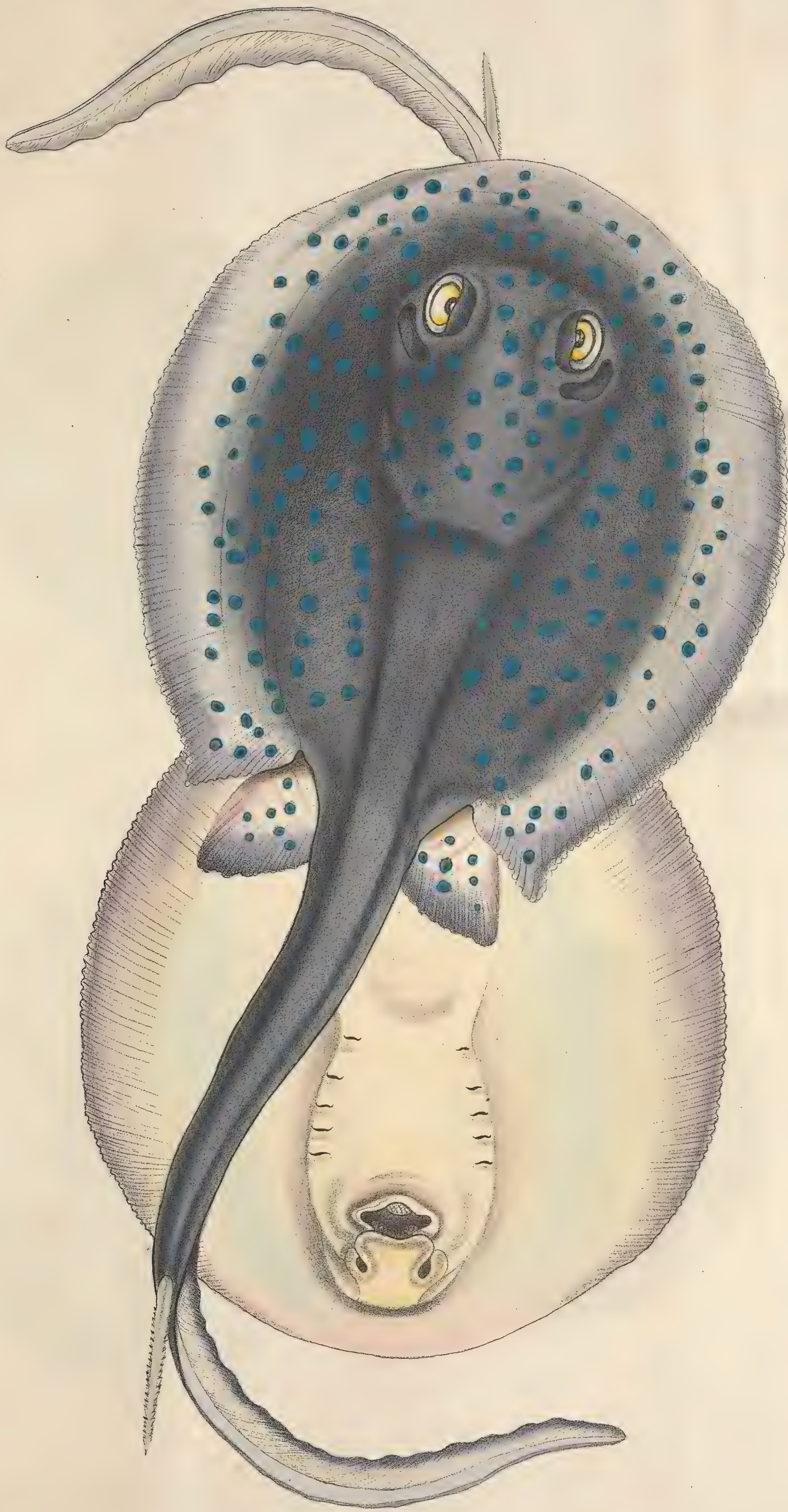
DEFORMED HOG FISH. *SYNANCEIA GROSSA*.
Singapore.

Published by Larbury Allen & Co. Leadenhall Street.
Printed by W. Day.



1.....SCYLLUM MACULATUM, a SPOTTED BEARDED SHARK, India, Mus Brit
 2.....SCYLLUM ORNATUM, a ORNAMENTED BEARDED SHARK, China, Mus Brit.

Published by Tuckey Allen & Co. Ltd., 10, Strand, London, W.C.2.



B.W. Hawkins Lithog.

Printed by W. Day.

TRIGON ORNATISS. n.

Singapore

Published 1829 by Parbury Allen & Co. in the Strand Street.

2



3



B.W. Hawkins fide

4



1. 2. AMMONITES NEPAULENSIS. n.
 3. WALLICHII. n.
 4. TENUISTNATA. n.
 All from Sulgranees Nepal.

Published 1829 by Parbury, Allen & Co. Leadenhall Str. London.
 Printed by W. Dey 17 Gate Str.

5th M 1138^①

